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<222> (2)
<223> n equals a,t,g, or c
<400> 19
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ctccccacca accetetgag tetgaagitg ggettgatge tgttateact gaccetttgt
                                                                        120
ttggagaaaa cagtccaagg tttgaaattg ggtctatgtt tattcaaact aagcttctct
                                                                        180
gagcacatgg totgtoccac toatcotcag agtatocgtt ggttttactt catgttcaga
                                                                        240
                                                                        300
ctgcagtgtt gttaaagaaa taaagctaca gtgttttcag aaggatttgt tatattatac
                                                                        360
ttcatgttcc cactgctcca ggctaagcgt ctcctctggg ctccattgtt taatgcagga
caaagccagg ttttctggca gcttcctttt catagcaatt ctcagtagag gtatagaatg
                                                                        420
agacctgcct accttcttgg gtgtttatta ccccatttgt ggattttact ttaacttctg
                                                                        480
                                                                        510
ttaccttaaa aaaaaaaaa aaaaactcga
<210> 20
<211> 750
<212> DNA
<213> Homo sapiens
<220>
<221> SITE
<222> (749)
<223> n equals a,t,g, or c
<400> 20
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                                                                         60
aaaatcaggt tgcgggacaa aggcaaagtg aagcccgtcc atcccaaaaa gccaaagcca
                                                                        120
                                                                        180
cagataaacc agtggaagca ggagaagcag caattatcgt ccgagcaggt atctaggaaa
aaagctaagg gaaataagac ggaaacccgc ttcaaccagc tggtcgaaca atataagcag
                                                                        240
aaattattgg gaccttctaa aggagcacct cttgcaaaga ggagcaaatg gtttgatagt
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tgatgatggc agcaggctgg gtaagaagct gggttgtgta ctttctggtg acactcctgg
                                                                        360
                                                                        420
gctcctcccc atcccccgtg tctctcactg agggaaagaa aatccccaag ggcactgcca
ctgtgctcgg aggtgccctg gactgtgtac atctgaactt tggtccatcc tttgatgtgt
                                                                        480
ggttcgttag ccacaaagag aaatatctga aagtcaacat gatgcttctt gcatattatc
                                                                        540
cagattattg tatgaagttg tgtctataat tattaccaat ttttattctt tatttctcaa
                                                                        600
atggaaacac ctgaaaaagc attctggagt gctgaatttt taagatgtat attttgttaa
                                                                        660
gcatattete taaatgagat attgtgtgge tttttagtaa caacgteatt tetaataaaa
                                                                        720
                                                                        750
aaaaaaaaa aaaaagaaaa gaaaaaaana
<210> 21
<211> 838
<212> DNA
<213> Homo sapiens
<400> 21
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                                                                         60
tgttgtgtct atctgttaac tgcacaaata tttaccaaat gcttaccaag agccaaggac
                                                                        120
tagacttggc actgggtaga aactagtaag gcatggtcct tcttctacat agaatcttag
                                                                        180
cattttagag atgagttccc agacatggtc cagaaggtca cagttcacac cattaggcaa
                                                                        240
ggcagtattt gaaataaaag tcatgtctaa tactaaatcc agtatgttct ctccttcagg
                                                                        300
                                                                        360
attitactot cattgotgoc cottggtttg ctatgotott coccagacag ctgcacaget
                                                                        420
catttaattt agatctcatt taatttagat ctctcaatta atttagatct ctgttaaaaa
                                                                        480
aaaaaaaaag ccctaggcag caaggtctaa catatcatcc tcaaattaaa gagaaagccc
                                                                        540
tttggtgtta tttttcttta tagcacttac caactcccag tagaatgtaa actccagtag
```

```
ggcacatate tttgcctctt ttatttactg ctctattccc agcaccagaa cagtccttgc
                                                                     600
cacaaagtag gtgctcaata aacatttggt gaatgaatta acctagtgtt ctttttacct
                                                                     660
acacatgcac acacagagcc atgacactcc tgccgaggaa gctcgcggct ctaagaggga
                                                                     720
cattaaagaa aagccaattc agtgcctgcc aaagagtaga acatgttttg acagcaggat
                                                                     780
cagcttgggt ggtggaccaa caatgggttg cagaccaaga aaaaaaaaa aaactcga
                                                                     838
<210> 22
<211> 1061
<212> DNA
<213> Homo sapiens
<220>
<221> SITE
<222> (138)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (460)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (473)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (1048)
<223> n equals a,t,g, or c
<400> 22
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cctqaqqqqc aagttcaaga ccaagattgg agctgggccg cctcatgggc cccaagggag
                                                                     180
tggccgtaga ccggaatnga catatcattg tggtcgacaa caagtcttgc tgcgtcttta
ccttccagcc caatggcaaa ctggttggcc gttttggggg ccgtggggcc actgaccgcc
                                                                     240
actttgcagg gccccatttt gtggctgtga acaacaagaa tgaaattgta gtaacggact
                                                                     300
tccataacca ttcagtgaag gtgtacagtg ccgatggaga gttcctcttc aagtttggct
                                                                     3.60
                                                                     420
cccatggcga gggcaatggg cagttcaatg ccccacagg agtagctgtg gactccaatg
gaaacatcat tgtggctgac tggggcaaca gccgcatccn aggtattcga cancictggc
                                                                     480
tccttcctgt cctatatcaa cacatctgca gaaccactgt atggtccaca gggcctggca
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ctgacctcgg atggccatgt ggtggtggct gatgctggca accactgctt taaagcctat
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cgctacctcc agtagctgta cagaggccct gcctggcttg tggagggaca gacattgggg
                                                                     660
                                                                     720
tgattggaca agagggtctg gctgggaggt gggccagacc tggcagcact gaatgtgggc
tgtgggcatg ggtgcacccg gtgccctccc tctcctaccc ccacccccac ggttgcactt
                                                                     780
                                                                     840
tatttattcg gttcttgctt tggtgactgg gtgagcctgg actgtggtcc caaggatgtg
tgcagagett caccetacce ttettacaca ectececace ectgteagte tgetececat
                                                                     900
960
                                                                    1020
accaccctat acacactgac agagacagca ataccccacc ccccatatta aataaatgtc
ttcaccaaga aaaaaaaaa aaaaaaanac tcgcggcacg a
                                                                    1061
```

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<210> 23
<211> 884
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<212> DNA

<213> Homo sapiens

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<220>
<221> SITE
<222> (307)
<223> n equals a,t,g, or c.
<220>
<221> SITE
<222> (356)
<223> n equals a,t,g, or c
<400> 23
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                                                                       60
ggagtgggag ggaggcgcaa taagacaccc ctccacagag cttggcatca tgggaagctg
                                                                      120
gttctacctc ttcctggctc ctttgtttaa aggcctggct gggagccttc cttttgggtg
                                                                      180
tetttetett etecaaceaa cagaaaagae tgetetteaa agtggagggt etteatgaaa
                                                                      240
cacagetgee aggageecag geacaggetg ggggeetgga aaaaggaggg cacacaggag
                                                                      300
gagggangga gctggtaggg gagatgctgg gctttaccta agtctcgaaa caaggnggca
                                                                      360
gaataggcag aggcctctcc gttccaggcc catttttgac aratggcggg acggaaatgc
                                                                      420
aatagaccag cctgcaaraa aracatgtgt tttgatgaca ggcagtgtgg ccgggtggaa
                                                                      480
caagcacagg ccttggaatc ccaatggact gaatcagaac cctaggcctg ccatctgtca
                                                                      540
geegggtgae etgggteaat tttageetet aaaageetea gteteettat etgeaaaatg
                                                                      600
aggettgtga tacetgtttt gaagggttge tgagaaaatt aaagataagg gtatecaaaa
                                                                      660
tagtctacgg ccataccacc ctgaacgtgc ctaatctcgt aagctaagca gggtcaggcc
                                                                      720
tggttagtac ctggatgggg agagtatgga aaacatacct gcccgcagtt ggagttggac
                                                                      780
tctgtcttaa cagtagcgtg gcacacagaa ggcactcagt aaatacttgt tgaataaatg
                                                                      840
aagtagcgat ttggtgtgaa aaaaaaaaaa aaaaaaaaa aaac
                                                                      884
<210> 24
<211> 711
<212> DNA
<213> Homo sapiens
<400> 24
atagggcgat tgggtacggg cccccctcg agtttttttt ttttttttt tttagagaca
                                                                       60
gagtettget etgteaceta ggetggagta eagtggegtg atcatagete actgtaacet
tgaactcctg ggcttgagca accetectgg cacaatetee ttgaatgatg ggteecaaga
                                                                      180
gccagacaga acggacttcc tcccttatgc ctcatcaagt tagagagaga agagctcaca
                                                                      240
300
caagagggcc aaatgctcaa ttccttgagt tcaaatcttt ttccctgtat tttctcacct
                                                                      360
gtggggtcca cctctgtccc tctgactcac agaatgtgac tgcccccctc cttcttatga
                                                                      420
tagtccttca gaggtctgaa gacagaaagc atatcttcct tgagtcttct ctaagttgaa
                                                                      480
tactcccaat caccccaaac agagtagtgc agtgcaggaa aagtatagtt ttgtgatcag
                                                                      540
agttgtattc aaaattccat atcacaactt actaactaca tgacctagag tatgttcttt
                                                                      600
cacctcacag aggcaggagc attgtgagga ttaaagcgcc tagccaggaa taggccatag
                                                                      660
tatgtgctca ataaatgata cttctcaaga taacaatctc gtgccgaatt c
                                                                      711
<210> 25
<211> 507
<212> DNA
<213> Homo sapiens
<220>
<221> SITE
<222> (7)
<223> n equals a,t,g, or c
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<220>
<221> SITE
<222> (10)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (48)
<223> n equals a,t,g, or c
<400> 25
ctcgaantan ccccactaag ggaacaaagc tggagctcca cgcggtgncg gccgctctar
                                                                         60
aactagtgga tcccccgggc tgcaggaatt cggcacgagc ttttccaaaa tggctgtact
                                                                        120
aatttacatt cccaccaaca atgttcaagg atttcatatt cttgacattc ttaccaaaat
                                                                        180
tgtcacagtt tgtaaaaggt agtctaataa gtggcctaag tgaatgtgac aacacttcat
                                                                        240
tgaaagcaat cttaggtttt tccaactata gtcaataata acttaattgt acattctaaa
                                                                        300
ataactcaaa gagtgtaatt ggattgcttg taacttaaag gataaatgct tgaggggatg
                                                                        360
gatgcctcat tctccatgat gtgcttattt cacattgcat gcctgtatca aaacattaca
                                                                        420
                                                                        480
tttatcccat aatatacaca cttactatgt acccccaaaa aataaacatt aaaattaagt
                                                                        507
tttcaaaaaa aaaaaaaaaa aactcga
<210> 26
<211> 2232
<212> DNA
<213> Homo sapiens
<220>
<221> SITE
<222> (715)
<223> n equals a,t,g, or C
<400> 26
                                                                         60
ctcccaggcc cgcgaacttg gccattcagc cgccgctgtc cccgctgcgc gccctcgcgc
                                                                        120
ctctgcctga raagccaggc gctgttcccc caccccagaa gaggatggca aaggtggcta
                                                                        180
aggaceteaa eccaggagtt aaaaagatgt eeetgggeea getgeagtea geaagaggtg
                                                                         240
tggcatgttt gggatgcaag gggacgtgtt cgggcttcga gccacattca tggaggaaaa
tatgcaagtc ttgcaaatgc agccaagagg accactgcct aacatctgac ctagaagacg
                                                                         300
atcggaaaat tggccgcttg ctgatggact ccaagtattc caccctcact gctcgggtga
                                                                         360
aaggegggga eggeateegg atttacaaga ggaaceggat gateatgace aaceetattg
                                                                         420
ctactgggaa agatcccact tttgacacca tcacctacga gtgggctccc cctggagtca
                                                                         480
cccagaaact gggactgcag tacatggagc tcatccccaa ggagaagcag ccagtgacag
                                                                        540
                                                                         600
gcacagaggg tgcttttacc gccgccgcca gctcatgcac cagctcccca tctatgacca
ggatccctcg cgctgccgtg gacttttgga gaatgagttg aaactgatgg aagaatttgt
                                                                         660
caagcaatat aagagcgagg ccctcggcgt gggagaagtg gccctcccgg ggcangggtg
                                                                         720
gcttgccaag gaggaggga agcagcagga aaagccagag ggggcagaga ccaytgctgy
                                                                         780
 taccaccaac ggcaktytca gtgacccgtc caaagaagaa gcgtgctagc cagtcccact
                                                                         840
 cgtgtgataa cccattaatc tattaagcca taagtggatt aatccattcc tgaggacctg
                                                                         900
                                                                         960
 agccctcacg acccaatcat ctcttaaagg ccccacctct caatactgcc atgcagagga
 ttatgtttca acctgagtgt ttggagggga tgttcaaccc ataggaagtg gcagtgtgga
                                                                        1020
 agaagtgctg ctgaggagtg agtcactggg ggccattttg agaaaacaga aaggagaagc
                                                                        1080
 cagagttggg gagatgaaag cctcatggct tggtttgtct taaactgccc cacagaaggc
                                                                        1140
 gaaaggaatg cttgaggctg gaccacgtgg gtctagcgtg tactgcgttt ctggtcccca
                                                                        1200
 gcccctgttt taccttttgc tcctcctgcc ccatcaacca agtgtcttca tttgtttcta
                                                                        1260
 tggcaattaa cttttggaga tagaagtccc agcacacgag atccccaagc acattatcta
                                                                        1320
 ccttgctgaa caggctggca gtcacacatg agccaggcga cccagggaaa tgccagccca
                                                                        1380
 aacgaagctg ctgccacatc cagagagggc cggactcttt ctcccttgta gtcactcaag
                                                                        1440
 ctaatcatcc aaaacctgca tectecatet ecaageeeca tettattage accatetggg
                                                                        1500
```

```
attgccaacc aagaaactgt tttatctgag aactctaaga ccaaagaaca agatttattt
                                                                  1560
cctctactac agatttggca gtgacgcata aaaggcccat ttctcaggaa gaatacatgt
                                                                  1620
cctaaggatg taaaaaaaaa aaaaatatta gatctagtta ccatggkcta taaactggtc
                                                                  1680
ttttcccgcc ccaccctgat cctggcttct gtccaccctc aaatagctgt ttgktcataa
                                                                  1740
accetaaata etagataatt etaagttgga aggagacete taagteaetg tageatttee
                                                                  1800
aaatcgccat tcccaagaga catgtggatc tgacatcgtg ttttattctt gactgagcct
                                                                  1860
cgcayatttg ttctgtgtgg aacaaaggca aaggcagccc aagaacccgg gtccttgcct
                                                                  1920
acagtcagct ttaggaaatg attgtgaact tgggaagcat ttaaatagca atactagaca
                                                                  1980
gtaaatggaa aaggccaaag tcagaaaata agtagggatt ccaaaggaag cctttattgg
                                                                  2040
ttgggctagg ctgggctagc tgtggaagat agacttctat gtccctgccc caaccacaat
                                                                  2100
tttactttaa ttattatgta attagtgaat cgatgtctgt caccgtctgt agatgctgag
                                                                  2160
gtcttgttca tctctttatt tgcattgata tacatagcca ttgctcaata aatatgtgac
                                                                   2220
                                                                   2232
ccatgaaaaa aa
<210> 27
<211> 640
<212> DNA
<213> Homo sapiens
<220>
<221> SITE
<222> (1)
<223> n equals a,t,g, or c
<220>
<221> SITE
 <222> (4)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (15)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (17)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (21)
 <223> n equals a,t,g, or c
 <400> 27
 nggngtgacc tatanangta neetteagta eegteeggaa tteeegggte gacceaegeg
                                                                     60
 teegaggaga tgetteaaaa tgteaattge tttaaaetta aattaeetet eaagagaeea
                                                                     120
 aggtacattt acctcattgt gtatataatg tttaatattt gtcagagcat tctccaggtt
                                                                     180
 tgcagtttta tttctataaa gtatgggtat tatgttgctc agttactcaa atggtactgt
                                                                     240
 300
 tgtgcaggat tctttaggct ttatcagtgt aatctctgcc ttttaagata tgtacagaaa
                                                                     360
 atgtccatat aaatttccat tgaagtcgaa tgatactgag aagcctgtaa agaggagaaa
                                                                     420
 aaaacataag ctgtgtttcc ccataagttt ttttaaattg tatattgtat ttgtagtaat
                                                                     480
 attccaaaag aatgtaaata ggaaatagaa gagtgatgct tatgttaagt cctaacacta
                                                                     540
 600
                                                                     640
```

aaaaaagggc ggccgctcta gaggatccct cgaggggccc

```
<210> 28
<211> 413
<212> DNA
<213> Homo sapiens
<220>
<221> SITE
<222> (407)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (408)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (409)
<223> n equals a,t,g, or c
<400> 28
gaatteggea egagtgeage tteattttgg getgeettag eeatgaaget eettttgetg
                                                                     60
actttgactg tgctgctgct cttatcccag ctgactccag gtggcaccca aagatgctgg
                                                                    120
aatctttatg gcaaatgccg ttacagatgc tccaagaagg aaagagtcta tgtttactgc
                                                                    180
ataaataata aaatgtgctg cgtgaagccc aagtaccagc caaaagaaag gtggtggcca
                                                                    240
ttttaactgc tttgaagcct gaagccatga aaatgcagat gaagctccca gtggattccc
                                                                    300
360
aagaaaaaaa actcaagggg gggcccggta cccattcgcc ctatgtnnnt cgt
                                                                    413
 <210> 29
 <211> 1122
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (5)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (948)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (1107)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (1116)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
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60

120

180

240

300

360

420

480

540

600

660

720

780

840

900

960

1020

1080 1122

<222> (1121) <223> n equals a,t,g, or c <400> 29 ggcanageta acegeagtet etactaette etettegece ecaeettgtg etacgagete aactttcccc gctctccccg catccggaag cgctttctgc tgcgacggat ccttgagatg ctgttcttca cccagctcca ggtggggctg atccagcagt ggatggtccc caccatccag aactccatga agcccttcaa ggacatggac tactcacgca tcatcgagcg cctcctgaag ctggcggtcc ccaatcacct catctggctc atcttcttct actggctctt ccactcctgc ctgaatgccg tggctgagct catgcagttt ggagaccggg agttctaccg ggactggtgg aactccgagt ctgtcaccta cttctggcag aactggaaca tccctgtgca caagtggtgc atcaggtagg tggggtgtgt gtgtgtgtga tgtggaacat ggctgtgaac ctgaaccgct ttccatgccc cctcctctgc agacacttct acaagcccat gcttcgacgg ggcagcagca agtggatggc caggacaggg gtgttcctgg cctcggcctt cttccacgag tacctggtga gcgtccctct gcgaatgttc cgcctctggg ckttcacggg catgatggct cagatcccac tggcctggtt cgtgggccgc tttttccagg gcaactatgg caacgcagct gtgtggctgt cgctcatcat cggacagcca atagccgtcc tcatgtacgt ccacgactac tacgtgctca actatgagge eccageggea gaggeetgag etgeacetga gggeetgget teteactgee acctcacacc cgctgccaga gcccacctct cctcctaggc ctcgagtgct ggggatgggc ctggctgcac agcatcctcc tctggtccca gggaggcctc tctgcccnta tggggctctg tectgeacee etcagggatg gegacageag gecagacaea gtetgatgee agetgggagt cttgctgacc ctgccccggg tccgagggtg tcaataaagt gctgtccagt gaaaaaaaa aaaaaaaac tcgagggggg gcccggnacc caattngccc na

```
<210> 30
<211> 778
<212> DNA
<213> Homo sapiens
<400> 30
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                                                                    60
cgtgtggacg gcgagtatga tctgaaagtg ccccgagaca tggcttacgt cttcrgtggt
                                                                   120
gcttatgtgc ccctgagctg ccgaatcatt gagcaggtgc tagagcggcg astggcaggg
                                                                   180
cettgatgag gtggtacgge tgctcaactg magtgacttt gcattcacag atatgactaa
                                                                   240
ggaagacaag gcttccagtg agtccctgcg cctcatcttg gtggtgttct tgggtggttg
                                                                   300
tacattetet gagateteag ceeteeggtt eetgggeaga gagaaagget acaggtteat
                                                                   360
tttcctgacg acagcagtca caaacagcgc tcgccttatg gaggccatga gtgaggtgaa
                                                                   420
agcotgatgt ttttcccggc cagtgttgac atottccctg aacacattcc tcagtgagat
                                                                   480
gcaggcatct ggcacccagc tgctataacc aagtgtccac caactacctg ctaagagecg
                                                                   540
ggagcatgga acgtgttggg atttagagaa cattatctga gaaaagagtt cacttcctgc
                                                                   600
teccaggata tttetettt etgtttatga agtacaacce atgetgetaa gatgegagea
                                                                   660
ggaagaggca teetttgeta aateetgttt gaatgteatt gtaaataaag eetetģetet
                                                                   720
778
```

```
<210> 31
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<211> 2476

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (853)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2227) <223> n equals a,t,g, or c

<400> 31						
actcaagacc	ctgtgcacct	ctcagcaggc	ctttgctgga	cagatgaaga	gtgacttgtt	60
tctggatgat	tctaagaggt	tatcaatact	ctggctgacc	atcgtcatcg	tgggactgac	120
tttggtggaa	gtccttggtt	acttatcatt	actgtgtttc	tgagaagtta	taaatttgcc	180
atctccctct	gcacaagtta	cctttgtgtg	tctttcctga	agactatctt	cccgtctcaa	240
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120

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aactaagata acaacaacaa aaaagacaaa tccaaatgca ttacttgaag agcgactact
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                                                                      600
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 tettgacete geceaettte tetacagtee tgageaatta cacetgecaa geaeetteee
                                                                        180
 aatggacaga ctggcaggcc ctactcccaa caggcatcca gactgagcat caccaaggat
                                                                        240
 gggacaaaca gaagcaatgc aagaggaaat gcgaacacga acatgcacca ctacaccaca
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 acctatggaa acaatcaggc aaaacaagac taggagacat atgacaagaa aacaggcctg
```

3.60

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gacgetteaa aaatgeeaat gteacgaaag acaaaaactg ggeatgetet tetggateaa
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aggagactaa agagatataa caaccaaaca caataaaact atcctagatt acatcctgga
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ttttttaaaa gcaaaaaaga acaatttggt aacaactggg gaaagtgtta atgtggctac
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attttaa
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<211> 865
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<213> Homo sapiens
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                                                               120
aacctttatt aaaaagacaa ataaactatt ttgtagaaga tcagactcct acttaactgg
                                                                180
aagagaaatg totattaaat gtototooto tttototggg toaagaccat gtaattttat
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getteagaga tgaagataet gtttgtttae aaagagttta gtttttaaga eateeaaaae
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tctatgctag agcaaaaatc aaatagcaaa ggacactagc cagaaaatac agtgtgtgtg
                                                                360
tgtgcacctg tgtgcctgct gaacaacttg acagtgtaac agataaggta actgaagatg
                                                                420
gtggatattt gaattgtatt agcttaatgt ctacatatct ttggccaaaa ctctattgtc
                                                                480
atattagaaa catgttatct ttttcatgtt tattagtaat ttatttttga ttctttgttt
                                                                540
tetttttegt ecaactaaaa caactgtaat gtaettgata catttatate aagttetaaa
                                                                600
gtatttagac aaatccaaat actttgtttt tagtttttc ctcctttcca tcctgttaac
                                                                660
cacagtgaaa cgctgcagta ttttgatttg gtcagtgcta cggaggaaga ccatgaaagc
                                                                720
780
840
                                                                865
aaaaaaaaa aaaaaaaggg cggcc
<210> 53
<211> 689
<212> DNA
<213> Homo sapiens
<220>
<221> SITE
<222> (309)
<223> n equals a,t,g, or c
<400> 53
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cttagtaagc atcatgacat catatataat caacctatct ttcttcttac ctttggcaac
                                                                120
                                                                180
teggaaggte agtgetaage ettgtggtta accetagtag tgacatecet tettatgtet
 tagtaatcgt cttatcagaa aatatcatat aaaataaaca caaagtaaac tttttactta
                                                                240
 aaaagatctg tagatatttc actaactcta ttaatgcttt ggtaatagct atttaatcta
                                                                300
 taatcctgnc ctagatcaag ttttgaggcc tcagtgttat tcattccttg ggctaagagc
                                                                360
420
 ccatttactc tttatttgaa attgccttct tttaaaagtt attcttaata ttgtaagcta
                                                                480
 540
                                                                600
 aacaaaaata ataataaata too actttag aaaatttgga aaatcatgaa ggtataaata
 ctaaaatcga aattctctat aagatcaata ttcagatttg acctcaggca aacacagaaa
                                                                660
                                                                689
 ttaaagttaa aaaaaaaaa agggcggcc
```

```
<210> 54
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<211> 515

<212> DNA

<213> Homo sapiens

```
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<222> (3)
<223> n equals a,t,g, or c
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<221> SITE
<222> (4)
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<220>
<221> SITE
<222> (7)
<223> n equals a,t,g, or c
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<222> (20)
<223> n equals a,t,g, or c
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                                                                        120
accaacatct ccaccagege taeggactee teccaattet gacatetett geagacaata
                                                                        180
                                                                        240
ctatgctctc tacacactgt ttagaaatgg aaaggtgatc tgcactgtat cttgggtttg
                                                                        300
ttggctatgc ttcctttgat gacatatatt atacagtata tatatacata tatttwwwww
                                                                        360
gttagagttc tagccatttt atttctccgc agggtccttt ctcagacatt actgcatgct
gtatatggcg ttagctgtgt gttgatcttc taaaagatga tagagtttac tggtaattgt
                                                                        420
                                                                        480
gtaatcaget cetgeetttt tattitettg ggitatitae atgicagaga cattiataaa
                                                                        515
aagtgaaagg ataaaaaaaa aaaaaaaaaa ctcga
<210> 55
<211> 747
<212> DNA
<213> Homo sapiens
<400> 55
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                                                                         60
                                                                        120
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                                                                        180
ctccctccc gccccactct cccccgttgc ccgagatggc caagttcagg cctgtgcaat
                                                                        240
geogetteee tetgageete eeteteaagg geoacgeagg cagetgeage agggeoaget
                                                                        300
gcaggatggg gctgccggtc actgaattgt cgttcaaatg catcatcttt gtggcgtctt
totcatgcga gcaaagccac gtgctctcct gtctgctgtc acatctgtgc ctggattgct
                                                                        360
taaatattgt ttgtgatggg gaggttttaa tctggtgatg cagagggaag cagggctgtg
                                                                        420
                                                                        480
ggggcacqtt taattggctc ccagcagcgt ggggagtgct tctatggtgt gtggggtttt
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ttgttgcctc cctctagaag tgttaccgtt ttcacgtcct attaatgtcc tctggttgtt
                                                                        600
aaattacagc agcacattac agtgcactgg gttccctcct ggagtgaata caaacggagg
gcatctactt gtatttttag aagttttggg agaatttagt gatttgtggc twtgatcaat
                                                                        660
                                                                        720
cctgttgact ggtgtatgtc tgcgcaaacc tgtttcaaat aaatcttttg ttaaagtaaa
                                                                        747
aaaaaaaaa aaaaaaaaa aactcga
```

<210> 56

<211> 676

<212> DNA

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                                                                 120
atattttggt aaaaagcagc tgactcacat cccatccaaa tccccagtgc ccttcagatc
                                                                 180
240
acatgtetee tteetaegee atetgettet cetecettee ttegattagt getttegtet
                                                                 300
gctcttccaa tttctttcat tgttcaatgt cttttgcttc ctcttccccc tcctctcccc
                                                                 360
tagaggaaat taacatactt aatacagctg atgtcataaa gccccttttc cctaagaagt
                                                                 420
taaatttctg tttctgcaaa ataaatacat agctctgttg tgtgaaggtc aaaggaaacc
                                                                 480
tgagtagtaa acctgaaata gatttttttg gggttcatct tacataaagt gtcaatgcat
                                                                 540
attatgtatt ctatttattt tccaaaataa attttctatt tgggatttaa atatggtaag
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tcaacacaac tttattgtac cagtcattgg attgaataaa tgacttaaaa ataaaaaaaa
                                                                  660
                                                                  676
aaaaaaaaa actcga
<210> 57
<211> 832
<212> DNA
<213> Homo sapiens
<400> 57
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                                                                  120
getgegggee etggeecagg etgeaegtge aggaeeteet ggtggeegga geetecaeag
                                                                  180
cagtgcagtg gcagccacct acaagtatgt gaacatgcag gatcccgaga tggacatgaa
                                                                  240
gtcagtgact gaccgggcag cccgcaccct gctgtggact gagctcttcc gaggcctggg
                                                                  300
catgaccetg agetacetgt teegggaace ggecaccate aactaceegt tegagaaggg
                                                                  360
420
gegttgeatt geetgeaage tetgegagge catetgeece geeeaggeea teamcatega
                                                                  480
ggctgagcca agagctgatg gcagccgccg gaccacccgc tatgacatcg acatgaccaa
                                                                  540
                                                                  600
gtgcatctac tgcggcttct gccaggaggc ctgtcccgtg gatgccatcg tcgagggccc
caactttgag ttctccacgg agacccatga ggagctgctg tacaacaagg agaagttgct
                                                                  660
caacaacggg gacaagtggg aggccgagat cgccgccaac atccaggctg actacttgta
                                                                  720
teggtgaege eccaceggee tgeageecet getgeecaat aaaaceaete egaceecaaa
                                                                  780
                                                                  832
<210> 58
 <211> 1003
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (422)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (700)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (758)
 <223> n equals a,t,g, or c
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<220>

<221> SITE <222> (556)

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ccggccac	gg gctcagggag	caaataggaa	caccatacca	ccactaccc	ctccccgag	180	
catccggc	gg gctcagggag ca agatgctgcc	cgagcgggag	cacctactac	aagctcccgc	ctcggcctgc	240	
catcgaga	ca agatgetgee	cygycccayy	acaacacaa	actavaccat	gctctgcacc	300	
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gtccctgc	ca cccagcactc	agcgactctt	cetgeagaac	ttatacaaca	acctctccac	480	
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gacttggc	ca acctgagcca	cctcttcctc	cacggganag	cctgcggctg	ccacagage	7.80 840	
acatattt	ca caacctaaac	agcctggacc	ggctgctgct	gcacgggaac	cggccgcagg	900	
acatacac	ca cacaacette	cgcggcctca	gccgcctcac	catcetetae	Cigilicaaca		
acageetg	gc ctcgytgccc	ggcgaggcgs	tcgccgacct	gccctcgctc	gagttrctgc	960	
ggctcaac	gc taacccctgg	gcgtgcgact	gccgcgcgcg	gcc		1003	
33	•	•					
<210> 59	)						
<211> 70						•	
<212> DN							
	omo sapiens	-					
\215> 110	ANO BUP - COL			•			
<400> 59	1						
~20t F 6 6 6	, Jca cgagctgggt	catggatttt	gagaatcttt	tctcaaaacc	ccccaacccg	60	
gaatteg	rca aaacggccac	r ggagtetgag	gaaagaatcg	atgatgaaat	agatacagaa	120	
geeeteg	aa cacaagaaga	ggaettaaa gaaaattaaa	ctagagtaca	agcaaattcc	caaaaaattt	180	
gttgaaga	tg caatatcaco	a aaaaaattca	ctgcatagaa	aatcaaqaag	taaggactat	240	
agacacto	ata gtgataatga	. tatctgcagt	caggaatcag	aagataattt	tgccaaagag	300	
gatgtata	ata gtgalaalga agt acatacaago	caccegeage	gcaaatgctg	ctcaacctga	agaatctaca	360	
cttcaaca	agt acatacaago aag gagtaaaago	tagagaaaag	gctactaaac	aaaaaaataa	aaatcttaaa	420	
aagaaag	aag gagtaaaay aca agaatggcaa	a caccedeag	atgaaggaa	aatggcctgg	ccctggaaac	480	
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aaaggat	caa atgetttge	gaggaacagc	. ggcccacagg	atacagtoga	acgcaaggga	600	
gagaagc	agc agcatttgag	teaggeatte	accaaccaac	acccagagge	gtgtaaattt	660	
aaacaaa	ttt gtaaatatt	t tettgaaagg	aaatgtatta	. agggagaeee	. 9090	702	
gatcatg	atg cagagataga	a aaaaaaaaa	l adadadacic	. ya			
<210> 6							
<211> 1	095						
<212> D							
<213> H	omo sapiens	,					
<220>							
<221> S	ITE						
<222> (	107)						
<223> n	equals a,t,g	, or c					
<220>							
<221> S	ITE						
		,					
<2223 r		, or c					
<223> r	equals a,t,g	or c					
<222> (							

## <223> n equals a,t,g, or c

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taaaggaaac	ggagaaggtt aaagcaatag	gtttggggga	cgcccagete	cacccacaca	gctgctgctt	240
ttcccaagtc	ctcgccccc	gnccggcctc	ttageceeta	caccetecae	aggagccgca	300
ctccctgggg	ctcgcccccc aggacccctg	ccctcggcca	tagacacta	cccagcacct	cctccgtggg	360
gaggcccgag	aggacccctg gcaccggacg	ctggagaccc	tgegeeeeg	taacacatat	gtggcctaat	420
cagctcctcg	gcaccggacg ggtggggcct	gcggggttcc	Ctgcgcgcac	terestecat	tcatgtttaa	480
ccacctggtg	ggtggggcct	gcggcatccg	ageceeuget	trocatttaa	tgagttttat	540
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ccacgtgttt	gccgcntcgc cgggccaggg	cgtggcttgg	cattgattt	cacatacada	cagagaccac	720
gagaagccat	cgggccaggg aacgttagac	tgcaatacta	acgaecyacy	teactateea	tcctqctcgc	780
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cctgtgccct	tgcgccccag ctcactgact	, tatacagggt	cgtgtcttt	agaacctgcg	caccccgttc	900
cttacaaago	ctcactgact cagctctgag	cagacagggc	gtcctctcgc	. agaacougos . ataatatact	ctatccatct	960
ccagcgcatg	cagetetgag gegeeeeggg	, ccgcgagctt	agettagace	, gaggagaata , cararattet	ctccggatgg	1020
atcctgcgc	tgcgcctcct	: cctgcatgtc	ggggccccc	,	ctccggatgg aaaaaaaaaa	1080
aatcacagc	c aataaacacc	: agtgatttca	a aaaaaaaaa	addudddaa	aaaaaaaaaa	1095
aaaaaaaaa	a aaaaa					

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<211> 867
<212> DNA
<213> Homo sapiens
<220>
<221> SITE
<222> (831)
<223> n equals a,t,g, or c
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<210> 61

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ggtctcgaac tectgacete gtgateegee egeeteggee teccaaagtg etgggattae
                                                                       120
aggcatgage cactgegeee ageeggtett tttaaacatt eeccaggaet gtacageeaa
                                                                       180
cccatactca cctgacattt gggaactccc ccccacggcc ataactgatc tgcagaggta
                                                                       240
agaccaagag caagaatggg ggattcacat ctaaggtctg gtgatggctg atgaaggaag
                                                                        300
aagaatcagc gaacaaaagc ctctaggtct ttcttaccac aaacacctct ctgcccacct
                                                                        360
gctttgaaag gggcagaagt atagtgggcg agctgcccac ctgctacagt gaagggatct
                                                                        420
ggagaaatac tcacactttg aggtgctcgc cctcttcatc agccagctct aacttaagcc
                                                                        480
aatgacccca cgggagctta cacaagtyca aacaggccca aatgcattca tgagcagggg
                                                                        540
gaggccaaag gactccggag gagagaggcc caataaggct ggtgctattt ccgatccata
                                                                        600
gagagagcag aggtgggcag gcccttttga ttaatgtatc attcttgaat gcaagcttca
                                                                        660
aaatccgggt atgccgggtg agaatgagca ggactaacac ctgggtgtca tggcaagcct
                                                                        720
ccagggccga ctggccagag acagatccgc aagaggctct gcagccagct ctggtgccaa
                                                                        780
 gccactcgga tttgaacccc ggctcctcaa ggtcagctgt gtagccttga ntgaaycacc
                                                                        840
                                                                        867
 tgctatgacc aatctcgtgc cgaattc
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<210> 62
<211> 1134
<212> DNA
<213> Homo sapiens
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tctgaaggtc atttgattta	ctgaaagcat	atttactaat	tectageace	atactggctt	aagatgttgt	180
atttgattta aataaacaat	gcttttaaaa	caattcacta		acctgtcctt	tccagtggct	240
tccagtgtca	ggtattgtta	tcgattttt	cttttttata	acttattaaa	cttcccatca	300
tccagtgtca ccagtagact	tgtattttat	aatctttcaa	atattatgta	actagcatgg	gagectggat	360
		actcatttqc	aaaaaaaaa	accageass	J J	420
		at tractor	CCECLLAUCE	caggical		480
		agtgactgta	alcalayyyy		-	540
		~~+ ^ > > T > > T	addicacaca		_	600
	L	++~~+~~	CLauluagee	gcagoon		660
		+ at at t t at a	a Lualuc Caa	Cg CC CC	-	720
		~ + ~ + > C > T > C	alleadatat	ag care	-	780
		+~+>+	alulllluda	accy com		840
· ·		agetaactgt	addatatet	caggangg		900
and the second s		- FFSECATAGA	FUALUACAGO	CCCGGGGGG		960
		$\alpha\alpha$	dalattqatq	ucce e garage		1020
			adauuaccuu			1080
	-+-+-maata	traatataaq	qaaayaaaac	. 466665		1134
tatattagt	ttgtaaacta	aatgttatta	caaaaaaaaa	aaaaaaaaa	. Loga	1134

<210> 63 <211> 1448 <212> DNA

<213> Homo sapiens

<210> 64

<211> 756 <212> DNA

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<220>
<221> SITE
<222> (354)
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                                                                        120
atgcactaga aataatacat taaactgact cttagtctta atgtacgctt gctgtcttaa
                                                                        180
atagggtgat tgagtccaac agactcaatc atacatgtca tacatgttta tgattaagag
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atattetttt tgtgtgetag ttgattttge egagaaaaaa tgaagaagaa tteaagaaga
                                                                        300
gatgagggta ggtaagctct cagagcattt ctgtctgccc atttggttct atgncttatg
                                                                         360
tgggctgcta atgtgactaa ttcagagtgt tgtatttcca catctgtgga ttccaccatg
                                                                         420
gaaaaggtgg gctaccattg gtccttatat ggctttatta gaaaaataga cattctatcg
                                                                         480
tttgtctgcc cagtggccag agtcctggtg aacaacagag ctcatgggaa aycagcctct
                                                                         540
ctcagggcac cccgctatga ggatattgaa atatgttcaa tcatttctca tctcccttgg
                                                                         600
aatgtaattc cctgccctat acaaaatagg atattccaat gcgctatttg aatctaggga
                                                                         660
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                                                                         720
                                                                         756
agttatttat taaaaaaaaa aaaaaaaagg gcggcc
 <210> 65
 <211> 496
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (22)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (472)
  <223> n equals a,t,g, or c
  <220>
  <221> SITE
  <222> (479)
  <223> n equals a,t,g, or c
  <220>
  <221> SITE
  <222> (493)
  <223> n equals a,t,g, or c
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                                                                           120
  cagagactac agcagctctt caaggggagc cagtttgcca ttcgctgggg ctftatccct
                                                                           180
  cttgtgattt acctgggatt taagaggggt gcagatcccg gaatgcctga accaactgtt
                                                                           240
  ttgagcctac tttggggata aaggattatt tggtcttctg gatttggagg caatcagcgg
                                                                           300
  acagcatgga agatgtgtgc tctggctcgg ataagagatg ggacatcatt cagtcactag
                                                                           360
   ttggatggca caaggctctt cacagacgca tctgtagcag agtggawctt gtactaactt
                                                                           420
   atgatagaat gtatcagaat aaatgttttt aacagtgtwa aaaaaaaaaa rnaggrggng
                                                                           480
                                                                           496
   agtgggtggg gtngag
```

```
<210> 66
<211> 557
<212> DNA
<213> Homo sapiens
<220>
<221> SITE
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                                                                    180
ttttgctttt agagataaaa ggtggtggat ttattttgcc tgcagtaaag attctcaggg
                                                                    240
tgtcagagca gcatattgtc aaatcctgct tctgttttat gtttcagtgt attcactttc
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attttcttac ttactagacc atttctgcag tttgcccaaa cctctactgt ttgggacagt
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aagccaaata cctcattttt aaaaagaagt tttcatggca tcagtgttaa taaagtacat
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540
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 attgttgtgg gagagggggc agggaatgga gagttgattc ttcactcttc tgtggtgcag
                                                                    480
 ttgaatttac atgtagctgg aactgatttt ccaagggatt atgatggcaa tgagcttaga
                                                                    540
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                                                                     120
  agaagettgt etgettgega aaagtggtge ageteattae acagteteea ageeagagag
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	~~~~	tractetete	agatgacttc	gtctcccacc	gactgcctgt	480
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	+aaaaaaata	acaagatgaa	gctgggcatg	gtggtgtgca	cttgtagtcc	. 600
Laalaalaaa	Ladadadada		anattanacc	caagaggttg	aggetgeagt	660
cagctatatg	ggaggctgag	gtgggaggat	cactigaget	cgagaggttg		720
~~~~tataat	tataccacto	tactccaqcc	tgggcaacat	agcaagacct	tgtttctaaa	
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<213> Homo sapiens

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<210> 70

<211> 733

<212> DNA

<213> Homo sapiens

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agggetecag ggteetgagg aggatggeea ggteaetgtg ggcetgtggt ggageeageg
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ggcacccagg gcttcctggt gggccaggtc cctggtcata gactgagcca gammagcatc
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ccagageetg gtegageegg aggaageeae cagagtttga attettatae aaatggageg
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gtacgaccac aagaagatgc gtgggcttct cctggtgctt atggaatggg tggccgttat
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caccatggcc tagcagtggc tetececagt caccecette acceceagte cagcagecea
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ccaacaatca agatcaaagt agcagtcttc ctgaagaatg tgtaccttca gatgaaagta
ctcctccgag tattaaaaaa atcatacatg tgctggagaa ggtccagtat cttgaacaag
                                                                       1080
                                                                       1140
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<211> 485
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ct

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and and an analysis of the second and the second an	900
aaagaaagag cgaaattacc ttacttaagg ataataggac aagacaaatt acagattgtc	960
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agetactors tatcharcat cottagatty gotdaactgt tactiticeta aggageeete	1200
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angetrante tacttacage tocachited eddgatetta atgadeateg tetagedeta	420
about and activities at attituded the transplaced activities and activities activities and activities activities activities and activities	480
and the actual transition of the contract of t	540
machangate transpart cettetatag tagaatteta tetteadete aggettagat	
Tastagagat taagettage tetggagaat cettetee degelaget accetation	600
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thegacact accasacet teageette acgaggagae teagettaga geatagege	240
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                                                                   180
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                                                                         240
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                                                                         600
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<212> DNA

<213> Homo sapiens

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<222> (272)

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<213> Homo sapiens

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<210> 96 <211> 617 <212> DNA <213> Homo	sapiens		- ma				
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                                                                      120
ctacatcaat gcagcctatg aacaatagcc tgtgaccata actagatatc tcaccaacgt
                                                                      180
ggcagctctt cctaaccaaa agatcaaatc aaaactctag tggcattttc ctatcactca
                                                                      240
cagaacagge taagetteee acetggagta gaceeggage etagaactea taaaaatttt
                                                                      300
taaaaatcaa acaaaacatg aaagtacaaa gtttctacaa aactcttatc cctctcctga
                                                                      360
caatatttat gatggtggca ttagtgaatt ttactggaaa aaaaaattcc caaaactatc
                                                                      420
cagctggraa tataagctca cttccaaagg ataaaacagt taagacgaga ttaggataaa
                                                                      480
                                                                      512
ttnactnaca aaaaaaaaa aaaaaaactc ga
<210> 99
<211> 944
<212> DNA
<213> Homo sapiens
<220>
<221> SITE
 <222> (13)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (486)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (934)
 <223> n equals a,t,g, or c
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                                                                       120
 ctctcagcct ctcagctcca cacggtcaac atgcgggacc ctctgaaccg agtcctggcc
                                                                       180
 aacctgttcc tgctcatctc ctccatcctg gggtctcgca ccgctggccc ccacacccag
                                                                       240
 ttcgtgcagt ggttcatgga ggagtgtgtg gactgcctgg agcagggtgg ccgtggcagc
                                                                       300
 gtcctgcagt tcatgccctt caccaccgtg tcggaactgg tgaaggtgtc agccatgtcc
                                                                       360
 agccccaagg tggttctggc catcacggac ctcagcctgc ccctgggccg ccaggtggct
                                                                       420
 gctaaagcca ttgctgcact ctgaggggct tggcatggcc gcagtgggg ctggggactg
                                                                       480
 gcgcancccc aggcgcctcc aagggaagca gtgaggaaag atgaggcatc gtgcctcaca
                                                                       540
 tecgetecae atggtgeaag ageetetage ggetteeagt teceegetee tgaeteetga
                                                                       600
 cctccaggat gtctcccggt ttcttctttc aaaatttcct ctccatctgc tggcacctga
                                                                       660
 ggagtgtgag caacetggac cacaageeca gtggteaece etgtgtgege eegeecage
                                                                       720
 ccaggagtag tcttacctct gaggaacttt ctagatgcaa agtgtgtata tgtgtgtgtg
                                                                       780
  tgtgtgtgtg tgtgtgtgtg tgtgtttatg tgtattttgt aatatgtgag ggaaatctac
                                                                       840
 900
```

944

2340 2351

gagggggggc ccgtacccag cttttttccc tttngtgagg ttgg

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<211> 2351
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<213> Homo sapiens
<220>
<221> SITE
<222> (593)
<223> n equals a,t,g, or c
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                                                                        120
agaagtcaag gtcaattaaa tgaaaagccc ttacctgaag gttgggaaat gagattcaca
                                                                        180
gtggatggaa ttccatattt tgtggaccac aatagaagaa ctaccaccta tatagatccc
                                                                        240
cgcacaggaa aatctgccct agacaatgga cctcagatag cctatgttcg ggacttcaaa
                                                                        300
gcaaaggttc agtatttccg gttctggtgt cagcaactgg ccatgccaca gcacataaag
                                                                        360
attacagtga caagaaaaac attgtttgag grttcctttc aacagwtawt gagcttcagt
                                                                        420
ccccaagatc tgcgargacg tttgtgggtg atttttccag gagaagaagg tttagattat
                                                                        480
                                                                        540
ggaggtgtag caagagaatg gttctttctt ttgtcacatg aagtgttgaa cccaatgtat
tgcctgtttg aatatgcagg gaaggataac tactgcttgc agataaaccc cgnttcttac
                                                                        600
atcaatccag atcacctgaa atattttcgt tttattggca gatttattgc catggctctg
                                                                        660
ttccatggga aattcataga cacgggtttt tctttaccat tckakaagcg tatcttgaac
                                                                        720
                                                                        780
aaaccagttg gactcaagga tttagaatct attgatccag aattttacaa ttctctcatc
tgggttaagg aaaacaatat tgaggaatgt gatttggaaa tgtacttctc cgttgacaaa
                                                                        840
gaaattctag gtgaaattaa gagtcatgat ctgaaaccta atggtggcaa tattcttgta
                                                                        900
acagaagaaa ataaagagga atacatcaga atggtagctg agtggaggtt gtctcgaggt
                                                                        960
gttgaagaac agacacaagc tttctttgaa ggctttaatg aaattcttcc ccagcaatat
                                                                       1020
ttgcaatact ttgatgcaaa ggaattagag gtccttttat gtggaatgca agagattgat
                                                                       1080
ttgaatgact ggcaaagaca tgccatctac cgtcattatg caaggaccag caaacaaatc
                                                                       1140
atgtggtttt ggcagtttgt taaagaaatt gataatgaga agagaatgag acttctgcag
                                                                       1200
                                                                       1260
tttgttactg gaacctgccg attgccagta ggaggatttg ctgatctcat ggggagcaat
                                                                       1320
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acctgtttta atcgcctgga cctgccacca tacaagagct atgagcaact gaaggaaaag
                                                                       1380
ctgttgtttg ccatagaaga aacagaagga tttggacaag agtaacttct gagaacttgc
                                                                       1440
accatgaatg ggcaagaact tatttgcmat gtttgtcctt ctctgcctgt tgcacatctt
                                                                       1500
gtaaaattgg acaatggctc tttagagagt tatctgagtg taagtaaatt aatgttctca
                                                                       1560
tttagattta tctcccagtg atttctactc agcgtttcca gaaatcaggt ctgcaaatga
                                                                       1620
                                                                       1680
ctagtcagaa ccttgcttaa catgagattt taacacaaca atgaaatttg ccttgtctta
ttccactagt ttattccttt aacaacaata ttttatgtgt gtcaaaagtc tcacttggga
                                                                       1740
gtagtgtttt tttcttttag acattctgca gacatgcagg gaagtccttt ggtaactgca
                                                                       1800
atatacaaga ttttcctatt aagcctcttg gtaagaggca tttgttaaaa gtgcaagctt
                                                                       1860
actcctgctt ctggggatgt gagcaaaatc gggcttgtgt tctccctctc attttagtct
                                                                       1920
gacttgacta ttgtttttcc tttctggcgc atgaatccat acatcattcc tggaagtgag
                                                                       1980
                                                                       2040
gcaagactct tgcatctcta caaagtagtt ttgtcaattt gaattcaggg aaaagttggt
                                                                       2100
cacageetge aaatgaette atttggaagt etgattgttt eagttgeetg acaaataeta
cactttacaa acaatgttaa cactgtgatt ccttcattgt tttaagaagt taacctaggg
                                                                       2160
ccgggcatgg tggctcatac ctgtaatcct agcactctgg gaggccgagg caggaggatc
                                                                       2220
                                                                       2280
cctttagccc aggagttaaa gaccagcctg ggcaacatag ggagaccctg tcttttttt
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gggcagcgtg gtgggggata aataaaaaaa aaaaaaaaa actcgagggg gggcccgtac

ccaatcgcct g

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<212> DNA
<213> Homo sapiens
<220>
<221> SITE
<222> (775)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (776)
<223> n equals a,t,g, or c
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 aacgccaccc tcctaagtgc caacgccagc caggggaagt tgcttccggc ccactcaggc
                                                                   120
 ctcagcctca tcatcagtga cgcaggccct gacaacagtt cctgggcccc tgtggcccma
                                                                   180
 gggacagttg tggttagccg tatcattgtg tgggacatca tggccttcaa tggcatcatc
                                                                   240
 catgetetgg ccageceet eetggeacee ccaeageeee aggeagtget ggegeetgaa
                                                                   300
 360
 gtggccggag ctctctacct ccgtgcccga ggcaagccca tgggctttgg cttctctgcc
                                                                   420
 ttccaggcgg aagatgatgc tgatgacgac ttctcaccgt ggcaagaagg gaccaacccc
                                                                   480
 accetggtet etgteeceaa ecetgtettt ggeagegaea eettttgtga accettegat
                                                                   540
 gactcactgc tggaggagga cttccctgac acccagagga tcctcacagt caagtgacga
                                                                   600
 ggctggggct gaaagcagaa gcatgcacag ggaggagacc acttttattg cttgtctggg
                                                                   660
 tggatggggc aggaggggt gagggcctgt cccagacaat aaaggtgccc tcagcggatg
                                                                   720
 776
<210> 102
<211> 1065
<212> DNA
<213> Homo sapiens
<400> 102
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                                                                    120
 agtgagctgg ggagggaagt ggatccattt ctgctaagga aattctagtc aaatgcatct
                                                                    180
 ctgtatagac aaaatgttag tggagaagat cttgttaata gaatgtctat catcagaatc
                                                                    240
 tcagttgata gggtttctct tgtaatgaag tctctacaaa ttgggttagc tacatctctg
                                                                    300
 ctaaacagtt gatggggtat ctcttgatta gggggatccc taatatcccc agccccagcc
                                                                    360
 agaagctgtg aaacctcaag tcctatggag gggagaagga ctggaatgta ccccatctyc
                                                                    420
 cttgactgma gagcaggttc ctccactgcc ccacccctta gacaccatgm ccccatcagg
                                                                    480
                                                                    540
  ttaatcccct gttgccatgg ttatggagac ttgcagctgc catcttagat gtgctctttg
  gggaagccca tctaacagga ggacattggt ttgggggtgc acctcctgaa gaatgggtgg
                                                                    600
  ggaaggettt etetaggate agatteaaat aaateaagta tgtattgagt geetaetetg
                                                                    660
  tgcaaggcac tatgctagat ctggtgccta gaagccctga gaaagaactt aaagagctag
                                                                    720
  gaggacagag gcccccaagc tgatctggtg gtgcatccac gcacccccac cctgggactt
                                                                    780
  tggatgctcc catctccacc tccagtgact tttaaagccg cttcgtgcct ttcctgtaac
                                                                    840
  gttggatcct ccttttctgt cccctgctgt ctcaaggccc caagttaaag ggttaaagcc
                                                                    900
                                                                    960
  gctggagctt ggggagagaa cattgtggaa tggaagggat catgcccttt gtggagtctt
  1020
                                                                   1065
  aaaaaaaaa ctcgcagggg gggcccgtac ccgaatcgcc ctatg
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<210> 103
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<211> 687

<212> DNA

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<213> Homo sapiens
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 <222> (28)
 <223> n equals a,t,g, or c
 <220>
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 <222> (34)
 <223> n equals a,t,g, or c
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\cdot <222> (55)
 <223> n equals a,t,g, or c
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 <221> SITE
 <222> (657)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (660)
 <223> n equals a,t,g, or c
 <220>
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 <222> (664)
 <223> n equals a,t,g, or c
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  ctggagetee accgeggtgg eggeegetet agaactagtg gateeeegg getgeaggaa
                                                                        120
  ttcggcacga gcagaaaaca acatggaagc caagttccta ggaaatgcac cctgtgggca
                                                                        180
  ctacacattc aagttccccc aggcaatgcg gacagagagt aacctcggag ccaaggtgtt
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  tgtgtgggtc actaaggatg agctgggtga ctatttgaaa ccaaaatacc tggcccaagt
                                                                        360
                                                                        420
  taggaggttt gtttcagacc tctgatgggc cgagctgcct gtggacggtg ctcagacaag
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  tctgggatta gagcctcaag gacattgtgt gattgcctca catttgcagg taatatcaag
  540
  agggggggcc cggtacccaa tttcgcccta tagtgagtcg tattacaatt cactggccgt
                                                                        600
  cgttttacaa cgtcgtgact ggggaaaccc tggcgttacc caacttaatc gccttgnagn
                                                                        660
                                                                        687
  aacntcccct ttcggcagct ggggtaa
  <210> 104
  <211> 804
  <212> DNA
  <213> Homo sapiens
  <400> 104
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                                                                        120
  cttataaata accctcaatt atgagggcgt acttttcact ttgaagaaaa ttgacttgca
                                                                        180
   ttaaagtggc taacaattct ttcctgggca ggatgtaaaa ttttcctctc ctctaatacc
   agtactgttg agctcacatt ctcccacttt tcctcttttc aggtggttca cgtatttggg
                                                                        240
                                                                        300
   attttatgaa acctcagaag cagacatgtt aacttttctt atcttttat tccctgaggt
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agtcctgggg ctcttaagag agatcttagt tcccaaaatt attaatttt tttcaacttt tgcatatatc ctccctttat atgattttcc ttgtctattg gagactcact catgtcttgg aattgagggt tgccccatgc caaagaccac aaaaaaaaaa	aaagttactt tcttttttct taatttaaca agatttttac ggtacgtaac tagggtttcc taagaacagt	tctagggcat gtaaccttat tttgggaaaa cactttctta tgcaggtttt agaaggactt	aaaacctttt atttgagggg ctgtaaatgg gtgccacttg accatggaac agttgtcctg	cagaattcag aaaattttat gccaaagttt atgctaggca cacatataca tgcttttgtc	360 420 480 540 600 660 720 780 804
<210> 105 <211> 373 <212> DNA <213> Homo sapiens					
<400> 105					
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cttagatatg ttctagcact					120 180
<pre>aagaaacatg cacgtctatc aatgttgaaa catttgttca</pre>					240
cattacacca catagtagca					300
ctctttaaaa gaaaaaaaaa					360
aaaaaaaaa aaa					373
					-
<210> 106 <211> 687 <212> DNA <213> Homo sapiens		•		·	·
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caccttatgg acagttgtgt					120
gcaagcctaa ctcaagccat					180
gtggagtcca acttgcctgg	accagettaa	tggttctgct	cctggtaacg	tttttatcca	240
tggatgactt gcttgggtaa	ggacatgaag	acagttcctg	tcataccttt	taaaggtatg	300
gagagtcggc ttgactacac	tgtgtggagc	aagttttaaa	gaagcaaagg	actcagaatt	360
catgattgaa gaaatgcagg	cagacctgtt	atcctaaact	agggttttta	atgaccacaa	420 480
caagcaagca tgcagcttac ggcctttgaa gcttactaca	tgcttgaaag	ggtcttgcct	agtgatggt	agagtgcagt	540
tggtctttgt agactgcctg	atggagtete	atggcacaag	agrattaaaa	cagtgtctcc	600
aattttaata aatttttgca	atccaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	660
aaaaaaaaa aaaaaaaaa					687
·					
<210> 107 <211> 37					
<212> PRT					
<213> Homo sapiens					
_					
<220>					
<221> SITE	•				
<222> (37) <223> Xaa equals stop	translation				
~223/ Nad equals scop	C. and Lacion				
<400> 107			,	D) D	

Met Glu Val Leu Phe Asp Ser Leu Leu Phe Ser Ser Phe Ile Phe Pro

1 5 10 15

Ser Gln Ser Leu Leu Ser Arg Thr Ser Ala Phe Ser His Lys Pro Asn 20 25 30

Gly Leu Ser Glu Xaa 35

<210> 108

<211> 457

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 108

Met Val Thr Cys Thr Cys Leu Pro Asp Tyr Glu Gly Asp Gly Trp Ser 1 5 10 . 15

Cys Arg Ala Arg Asn Pro Cys Thr Asp Gly His Arg Gly Gly Cys Ser 20 25 30

Glu His Ala Asn Cys Leu Ser Thr Gly Leu Asn Thr Arg Arg Cys Glu 35 40 45

Cys His Ala Gly Tyr Val Gly Asp Gly Leu Gln Cys Leu Glu Glu Ser 50 55 60

Glu Pro Pro Val Asp Arg Cys Leu Gly Gln Pro Pro Pro Cys His Ser 65 70 75 80

Asp Ala Met Xaa Thr Asp Leu His Phe Gln Glu Lys Arg Ala Gly Val-85 '90 95

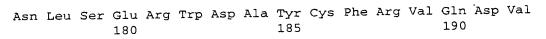
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Ala Glu Ala Ala Cys Glu Ala Gln Gly Ala Val Leu Ala Ser Phe Pro 115 120 125

Gln Leu Ser Ala Ala Gln Gln Leu Gly Phe His Leu Cys Leu Met Gly 130 135 140

Trp Leu Ala Asn Gly Ser Thr Ala His Pro Val Val Phe Pro Val Ala 145 150 155 160

Asp Cys Gly Asn Gly Arg Val Gly Xaa Val Ser Leu Gly Ala Arg Lys
165 170 175



Ala Cys Arg Cys Arg Asn Gly Phe Val Gly Asp Gly Ile Ser Thr Cys
195 200 205

Asn Gly Lys Leu Leu Asp Val Leu Ala Ala Thr Ala Asn Phe Ser Thr 210 215 220

Phe Tyr Gly Met Leu Leu Gly Tyr Ala Asn Ala Thr Gln Arg Gly Leu 225 230 235 240

Asp Phe Leu Asp Phe Leu Asp Asp Glu Leu Thr Tyr Lys Thr Leu Phe 245 250 255

Val Pro Val Asn Glu Gly Phe Val Asp Asn Met Thr Leu Ser Gly Pro 260 265 270

Asp Leu Glu Leu His Ala Ser Asn Ala Thr Leu Leu Ser Ala Asn Ala 275 280 285

Ser Gln Gly Lys Leu Leu Pro Ala His Ser Gly Leu Ser Leu Ile Ile 290 295 300

Ser Asp Ala Gly Pro Asp Asn Ser Ser Trp Ala Pro Val Ala Pro Gly 305 310 315

Thr Val Val Val Ser Arg Ile Ile Val Trp Asp Ile Met Ala Phe Asn 325 330 335

Gly Ile Ile His Ala Leu Ala Ser Pro Leu Leu Ala Pro Pro Gln Pro 340 345 350

Gln Ala Val Leu Ala Pro Glu Ala Pro Pro Val Ala Ala Gly Val Gly 355 360 365

Ala Val Leu Ala Ala Gly Ala Leu Leu Gly Leu Val Ala Gly Ala Leu 370 375 380

Tyr Leu Arg Ala Arg Gly Lys Pro Met Gly Phe Gly Phe Ser Ala Phe 385 390 395

Gln Ala Glu Asp Asp Ala Asp Asp Asp Phe Ser Pro Trp Gln Glu Gly 405 410

Thr Asn Pro Thr Leu Val Ser Val Pro Asn Pro Val Phe Gly Ser Asp 420 425 430

Thr Phe Cys Glu Pro Phe Asp Asp Ser Leu Leu Glu Glu Asp Phe Pro 435 440 445

Asp Thr Gln Arg Ile Leu Thr Val Lys 450 455

<210> 109

<211> 103

<212> PRT

<213> Homo sapiens

<400> 109

Met Gly Ser Trp Cys Leu Arg Gly Gly Ala Val Glu Glu Pro Ala Leu 1 5 10 15

Gln Ser Arg Glu Met Gly Tyr Ile Pro Val Leu Leu Pro Ser Ile Gly
20 25 30

Leu Glu Val Ser Gln Leu Leu Ala Gly Ala Gly Asp Ile Arg Asp Pro 35 40 45

Pro Asn Gln Glu Ile Pro His Gln Leu Phe Ser Arg Asp Val Ala Asn 50 55 60

Pro Ile Cys Arg Asp Phe Ile Thr Arg Glu Thr Leu Ser Thr Glu Ile
65 70 75 80

Leu Met Ile Asp Ile Leu Leu Thr Arg Ser Ser Pro Leu Thr Phe Cys 85 90 95

Leu Tyr Arg Asp Ala Phe Asp . 100

<210> 110

<211> 46

<212> PRT

<213> Homo sapiens

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<221> SITE

<222> (46)

<223> Xaa equals stop translation

<400> 110

Met Gly Gly Thr Glu Ser Tyr Ile Ser Ser Ser Pro Leu Leu Arg Thr 1 5 10 15

Leu Leu Ser Tyr Leu Val Phe Leu Tyr Tyr Leu Tyr Leu Leu Phe
20 25 30 . -

Tyr Val Ala Arg Ser Pro Phe Gly Lys Ala Glu Tyr Lys Xaa 35 40 45

<210> 111

<211> 210

<212> PRT

<213> Homo sapiens

<400> 111

Met Ala Ser Leu Leu Gln Gln Ile Glu Ile Glu Arg Ser Leu Tyr Ser 1 5 10 15

Asp His Glu Leu Arg Ala Leu Asp Glu Asn Gln Arg Leu Ala Lys Lys 20 25 30

Lys Ala Asp Leu His Asp Glu Glu Asp Glu Gln Asp Ile Leu Leu Ala 35 40 45

Gln Asp Leu Glu Asp Met Trp Glu Gln Lys Phe Leu Gln Phe Lys Leu 50 55 60

Gly Ala Arg Ile Thr Glu Ala Asp Glu Lys Asn Asp Arg Thr Ser Leu
65 70 75 80

Asn Arg Lys Leu Asp Arg Asn Leu Val Leu Leu Val Arg Glu Lys Phe 85 90 95

Gly Asp Gln Asp Val Trp Ile Leu Pro Gln Ala Glu Trp Gln Pro Gly 100 105 110

Glu Thr Leu Arg Gly Thr Ala Glu Arg Thr Leu Ala Thr Leu Ser Glu
115 120 125

Asn Asn Met Glu Ala Lys Phe Leu Gly Asn Ala Pro Cys Gly His Tyr
130 135 140

Thr Phe Lys Phe Pro Gln Ala Met Arg Thr Glu Ser Asn Leu Gly Ala 145 150 155 160

Lys Val Phe Phe Phe Lys Ala Leu Leu Leu Thr Gly Asp Phe Ser Gln 165 170 175

Ala Gly Asn Lys Gly His His Val Trp Val Thr Lys Asp Glu Leu Gly
180 185 190

Asp Tyr Leu Lys Pro Lys Tyr Leu Ala Gln Val Arg Arg Phe Val Ser 195 200 205

Asp Leu 210

<210> 112

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals stop translation

<400> 112

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1 5 10 15

Phe Gly Thr Asp Cys Val Glu Ala Val Ile Leu Leu Val Thr Leu Leu 20 25 30

Trp Glu Lys Lys Glu Ala Phe His Val Gly Phe Ser Glu Glu Leu Gln
35 40 45

Tyr Phe Pro Glu Arg Ser Thr Glu Lys Leu Lys Val Phe Glu Trp Glu

50 55 60

Glu Glu Lys Gln Thr Thr Ala Thr Ser Glu Asp Asn Thr Lys His Leu 65 70 75 80

Val His Ser Val Tyr Thr Arg Gly Ala Val Asn Phe Leu Val Glu Lys 85 90 95

Glu Leu Ser Leu Glu Lys Tyr Leu Lys Lys Pro Leu Lys Xaa 100 105 110

<210> 113

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals stop translation

<400> 113

Met Ala Ala Val Met Leu Val Leu Thr Val Val Leu Gly Leu Tyr Asn
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Ser Tyr Asn Ser Cys Ala Glu Gln Ala Asp Gly Pro Leu Gly Arg Ser 20 25 30

Thr Cys Ser Ala Ala Pro Gly Thr Pro Gly Gly Ala Gln Asp Ser Ser 35 40 45

Met Ser Ser Leu Gln Ser Ser Arg Lys Pro His Thr Xaa 50 55 60

<210> 114

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (135)

<223> Xaa equals stop translation

<400> 114

Met Val Glu Asn Ser Pro Ser Pro Leu Pro Glu Arg Ala Ile Tyr Gly
1 5 10 15

Phe Val Leu Phe Leu Ser Ser Gln Phe Gly Phe Ile Leu Tyr Leu Val 20 25 30

Trp Ala Phe Ile Pro Glu Ser Trp Leu Asn Ser Leu Gly Leu Thr Tyr 35 40 45

Trp Pro Gln Lys Tyr Trp Ala Val Ala Leu Pro Val Tyr Leu Leu Ile 50 55 60 Ala Ile Val Ile Gly Tyr Val Leu Leu Phe Gly Ile Asn Met Met Ser 65 70 75 80

Thr Ser Pro Leu Asp Ser Ile His Thr Ile Thr Asp Asn Tyr Ala Lys 85 90 95

Asn Gln Gln Lys Lys Tyr Gln Glu Glu Ala Ile Pro Ala Leu Arg 100 105 110

Asp Ile Ser Ile Ser Glu Val Asn Gln Met Phe Phe Leu Ala Ala Lys 115 120 . 125

Glu Leu Tyr Thr Lys Asn Xaa 130 135

<210> 115

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals stop translation

<400> 115

Met Arg Leu Gln Pro Asp Ile Cys Asn Leu Pro Thr Asn Pro Leu Ser
1 5 10 15

Leu Lys Leu Gly Leu Met Leu Leu Ser Leu Thr Leu Cys Leu Glu Lys 20 25 30

Thr Val Gln Gly Leu Lys Leu Gly Leu Cys Leu Phe Lys Leu Ser Phe 35 40 45

Ser Glu His Met Val Cys Pro Thr His Pro Gln Ser Ile Arg Trp Phe 50 55 60

Tyr Phe Met Phe Arg Leu Gln Cys Cys Xaa 65 70

<210> 116

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals stop translation

<400> 116

Met Ala Ala Gly Trp Val Arg Ser Trp Val Val Tyr Phe Leu Val Thr

1 5 10 15

Leu Leu Gly Ser Ser Pro Ser Pro Val Ser Leu Thr Glu Gly Lys Lys 20 25 30

Ile Pro Lys Gly Thr Ala Thr Val Leu Gly Gly Ala Leu Asp Cys Val 35 40 45

His Leu Asn Phe Gly Pro Ser Phe Asp Val Trp Phe Val Ser His Lys 50 55 60

Glu Lys Tyr Leu Lys Val Asn Met Met Leu Leu Ala Tyr Tyr Pro Asp
65 70 75 80

Tyr Cys Met Lys Leu Cys Leu Xaa 85

<210> 117

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals stop translation

<400> 117

Met Leu Tyr Ile Leu Leu Lys Pro Leu Leu Cys Leu Ser Val Asn Cys 1 5 10 15

Thr Asn Ile Tyr Gln Met Leu Thr Lys Ser Gln Gly Leu Asp Leu Ala 20 25 30

Leu Gly Arg Asn Xaa 35

<210> 118

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52·)

<223> Xaa equals stop translation

<400> 118

Met Trp Trp Leu Met Leu Ala Thr Thr Ala Leu Lys Pro Ile Ala 1 5 10 15

Thr Ser Ser Ser Cys Thr Glu Ala Leu Pro Gly Leu Trp Arg Asp Arg
20 25 30

His Trp Gly Asp Trp Thr Arg Gly Ser Gly Trp Glu Val Gly Gln Thr 35 40 45

Trp Gln His Xaa

50

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<210> 119
<211> 43
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (43)
<223> Xaa equals stop translation
<400> 119
Met Gly Ser Trp Phe Tyr Leu Phe Leu Ala Pro Leu Phe Lys Gly Leu
        <sup>--</sup> 5
                                    1Ö
Ala Gly Ser Leu Pro Phe Gly Cys Leu Ser Leu Leu Gln Pro Thr Glu
                                 25
    . . . 20
Lys Thr Ala Leu Gln Ser Gly Gly Ser Ser Xaa
                             40
         35
<210> 120
<211> 32
<212> PRT
<213> Homo sapiens
<400> 120
Met Gly Pro Lys Ser Gln Thr Glu Arg Thr Ser Ser Leu Met Pro His
                                     10
Gln Val Arg Glu Arg Arg Ala His Ile Pro Gln Met Pro Met Asn Thr
                                 25
<210> 121
<211> 46
<212> PRT
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45 .

<400 Met 1 Leu

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<210> 122 <211> 178

<212> PRT

<213> Homo sapiens

<400> 122

Met Ala Lys Val Ala Lys Asp Leu Asn Pro Gly Val Lys Lys Met Ser 1 5 10 15

40

Leu Gly Gln Leu Gln Ser Ala Arg Gly Val Ala Cys Leu Gly Cys Lys
20 25 30

Gly Thr Cys Ser Gly Phe Glu Pro His Ser Trp Arg Lys Ile Cys Lys 35 40 45

Ser Cys Lys Cys Ser Gln Glu Asp His Cys Leu Thr Ser Asp Leu Glu 50 55 60

Asp Asp Arg Lys Ile Gly Arg Leu Leu Met Asp Ser Lys Tyr Ser Thr 65 70 75 80

Leu Thr Ala Arg Val Lys Gly Gly Asp Gly Ile Arg Ile Tyr Lys Arg 85 90 95

Asn Arg Met Ile Met Thr Asn Pro Ile Ala Thr Gly Lys Asp Pro Thr 100 105 110

Phe Asp Thr Ile Thr Tyr Glu Trp Ala Pro Pro Gly Val Thr Gln Lys 115 120 125

Leu Gly Leu Gln Tyr Met Glu Leu Ile Pro Lys Glu Lys Gln Pro Val 130 135 140

Thr Gly Thr Glu Gly Ala Phe Thr Ala Ala Ala Ser Ser Cys Thr Ser 145 150 155 160

Ser Pro Ser Met Thr Arg Ile Pro Arg Ala Ala Val Asp Phe Trp Arg 165 170 175

Met Ser

<210> 123

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals stop translation

<400> 123

Met Gly Ile Met Leu Leu Ser Tyr Ser Asn Gly Thr Val Leu Phe Ile

Phe Val Pro Gln Ile Thr Ser Ser Val Leu Ser Val Phe Cys Ile Val 20 25 30

Phe Val Gln Asp Ser Leu Gly Phe Ile Ser Val Ile Ser Ala Phe Xaa 35 40 45

<210> 124

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals stop translation

<400> 124

Met Lys Leu Leu Leu Thr Leu Thr Val Leu Leu Leu Ser Gln
1 5 10 15

Leu Thr Pro Gly Gly Thr Gln Arg Cys Trp Asn Leu Tyr Gly Lys Cys
20 25 30

Arg Tyr Arg Cys Ser Lys Lys Glu Arg Val Tyr Val Tyr Cys Ile Asn 35 40 45

Asn Lys Met Cys Cys Val Lys Pro Lys Tyr Gln Pro Lys Glu Arg Trp 50 55 60

Trp Pro Phe Xaa

<210> 125

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals stop translation

<400> 125

Met Asp Tyr Ser Arg Ile Ile Glu Arg Leu Leu Lys Leu Ala Val Pro 1 10 15

Asn His Leu Ile Trp Leu Ile Phe Phe Tyr Trp Leu Phe His Ser Cys
20 25 30

Leu Asn Ala Val Ala Glu Leu Met Gln Phe Gly Asp Arg Glu Phe Tyr 35 40 45

Arg Asp Trp Trp Asn Ser Glu Ser Val Thr Tyr Phe Trp Gln Asn Trp 50 Asn Ile Pro Val His Lys Trp Cys Ile Arg Xaa <210> 126 <211> 65 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (65) <223> Xaa equals stop translation <400> 126 Met Thr Lys Glu Asp Lys Ala Ser Ser Glu Ser Leu Arg Leu Ile Leu 10 Val Val Phe Leu Gly Gly Cys Thr Phe Ser Glu Ile Ser Ala Leu Arg Phe Leu Gly Arg Glu Lys Gly Tyr Arg Phe Ile Phe Leu Thr Thr Ala Val Thr Asn Ser Ala Arg Leu Met Glu Ala Met Ser Glu Val Lys Ala Xaa 65 <210> 127 <211> 61 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (37) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (61) <223> Xaa equals stop translation <400> 127 Met Leu Leu Tyr Tyr Ser Val Met Thr Leu Ser Ser Leu Gly Gln Asp 5 10 Pro Ser Leu Pro Thr Phe Ala Asp Arg His Ser Gly Met Trp Arg Gln

Gln Cys Val Pro Xaa Thr Phe Leu Tyr Pro Pro Ala Val Gly Ser Thr

20

35 40 45 .

Gln Trp Lys Gly Asp Met Thr Leu Ile Leu Leu Phe Xaa 50 55 60

<210> 128

<211> 31

<212> PRT

<213> Homo sapiens

<400> 128

Met Ser Lys Arg Phe Thr Leu Asp Tyr Leu Phe Leu Ser Glu Ile Val 1 5 10 15

Leu Cys Leu Phe Tyr Tyr Leu Leu Leu Ile Arg Ala Leu Ala Leu 20 25 30

<210> 129

<211> 22

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals stop translation

<400> 129

Met Gln Ile Ile Phe Leu Ala Val Thr Cys Ser Phe Thr Thr Ala Glu 1 5 10 15

Ser Ala Val Ala Arg Xaa

<210> 130

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals stop translation

<400> 130

Met Gly Phe Ser His Arg Ser Pro Pro Val Ala His Pro Arg Ala Arg
1 5 10 15

Asn Arg Arg Ser Gln Glu Val Val Thr Glu Leu Gly Pro Cys Leu Leu 20 25 30

Leu Cys Thr Leu Leu Val Gl<br/>n Thr Gly Val Val Gly Ser Gl<br/>n Ala Leu 35 40 45

Xaa

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<210> 131
<211> 62
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (62)
<223> Xaa equals stop translation
<400> 131
Met Val Gly Ser Ala Met Met Gly Gly Ile Leu Leu Ala Leu Ile Glu
                                    10
Gly Val Gly Ile Leu Leu Thr Arg Tyr Thr Ala Gln Gln Phe Arg Asn
             20
Ala Pro Pro Phe Leu Glu Asp Pro Ser Gln Leu Pro Pro Lys Asp Gly
Thr Pro Ala Pro Gly Tyr Pro Ser Tyr Gln Gln Tyr His Xaa
     50
<210> 132
<211> 161
<212> PRT
<213> Homo sapiens
<400> 132
Met Pro Gly Leu Ser Ala Ala Leu Thr Asp Cys Ser Ser Leu Pro His
                                     10
Gly Phe Pro Phe Phe Leu Glu Tyr Leu Phe Phe Arg Gly Asn Met Gln
             20
Leu Gly Leu Lys Thr Phe Pro Pro Ile Ser Pro Thr Gln Pro Arg Leu
                             40
Gly Phe Ser Gly Glu Leu Arg Ser Leu Ser Val Phe Ile Phe His Pro
Phe Ile Val Thr Ser Phe Val Ile Leu Phe Phe Gly Gly Aşp Gly
                     70
 65
Val Ile Val Asn Leu Ile Ser Val Ser Tyr Leu Phe Ala Ser Pro Pro
                                     90
Ser Pro Pro His Glu Leu Leu Pro Ser Arg Gly Leu Ala Gln Leu Ala
                                105
                                                     110
            100
Leu Gly Thr Arg Glu Arg Thr Asp Ser Gly Pro Pro Gln Leu Ser Pro
```

120

Pro Ser Leu Trp Lys Gly Gly Trp Gly Ser Gly Ala Ser Ser Trp Ala

130 135 140

Leu Cys Glu Ala Trp Pro Pro Leu Pro Thr Leu Ala Leu Asp Cys Tyr 145 150 155 160

Ser

<210> 133

<211> 49

<212> PRT

<213> Homo sapiens

<400> 133

Met Gly Gln Ser Phe Ser Leu Tyr Met Ile Phe Gln Ile Phe Thr Thr

Phe Leu Val Pro Leu Asp Ala Arg His Cys Leu Leu Glu Thr His Trp 20 25 30

Tyr Val Thr Ala Gly Phe Thr Met Glu Pro His Ile His Met Ser Trp 35 40 45

Asn

<210> 134

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals stop translation

<400> 134

Met Trp Gln His Cys Phe Val Ile Leu Phe Val Gln Val Met His Thr
1 5 10 15

Val Leu Ile Lys Gly Ser Asn Lys Tyr Trp Gly Leu Phe Phe Phe Phe 20 25 30

Pro Gln Gly Ile Leu Xaa 35

<210> 135

<211> 77

<212> PRT

<213> Homo sapiens

<400> 135

Met Tyr Thr Phe Ile Cys Thr Trp Leu Trp Arg Asp Lys Leu Ile His 1 5 10 15

Ile Gly Leu Gln Ile Ser Leu Thr Gly Arg Arg Ala Gln Lys Asn Asn 20 25 30

Ile Phe Leu His Phe Phe Gly Ser Ile Leu Lys Asn Lys Lys Gly Thr 35 40 45

Pro Lys Gly Ser Leu Val Thr Pro Leu Leu Gly Phe Leu Ile Thr Asn 50 55 60

Ile Ile Phe Thr Cys Lys Val Asn Gly Pro Leu Ile Ser 65 70 75

<210> 136

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals stop translation

<400> 136

Met Glu Gly Leu Met Leu Pro Leu Leu Ser Val Ile Tyr Ser Glu Gly
1 5 10 15

Thr Val Trp Glu Glu Ile Ile Val Ser Gly Arg Gln Tyr Tyr Xaa 20 25 30

<210> 137

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals stop translation

<400> 137

Met Cys Gly Val Thr Tyr Ala Trp Tyr Met Pro Leu Leu Leu Lys 1 5 10 15

Phe Tyr Ser Leu Leu Leu Ala Gln Val Leu Leu Asn Pro Phe Leu Met 20 25 30

Cys Thr Gly Trp Arg Lys Asn Tyr Ser Gln His Phe Glu Arg Lys Val 35 40 45

Phe Arg Asn Asn Ile Asn Trp His Tyr Xaa - 50 55

<210> 138

<211> 40

<212> PRT

<400> 141

```
<213> Homo sapiens
<400> 138
Met Phe Ile Phe Arg Asp Gly Leu Thr Met Phe Ser Arg Leu Val Ser
     5
Asn Ser Cys Pro Gln Val Ile Leu Pro Ser Trp Pro Pro Glu Ser Leu
                               25
            20
Gly Gly Ser Gly Arg Arg Ile Ser
        35
<210> 139
<211> 47
<212> PRT
<213> Homo sapiens
<400> 139
Met Ser Trp Gly Tyr Phe Leu Gly Ala Ser Val Leu Leu Gln Asn Phe
                                   10
Phe Ser Ser Tyr Leu Leu Thr Pro Ser Gly Lys Ile Ile Glu Glu Val
                                25
             20
Thr Val Val Lys Ala Ser Val Asn Ser Ile Ser Lys Asn Phe Met
                            40
<210> 140
<211> 30
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (30)
<223> Xaa equals stop translation
<400> 140
Met Pro Gly Ile Phe Ile Leu Phe Met Thr Leu Ala Ser Thr Phe Asp
        5
Gln Arg Leu Leu Asn Asp Ser Gln Pro Lys Asp His Ser Xaa
                                25
            20
<210> 141
<211> 46
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (46)
<223> Xaa equals stop translation
```

Met Ala Trp Val Thr Ser Tyr Gly Pro Leu Glu Asp Glu Ser Asn Pro

1 5 10 15

Ser His Trp Phe Phe Phe Ala Asn Ser Phe Ala Phe Ile Phe Leu Ile 20 25 30

Thr Ile Asn Ser Ile Phe His Val Leu Arg Ala Pro Gly Xaa 35 40 45

<210> 142

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 142

Met Asn Gln Arg Tyr Arg His Lys Ile Lys Asn Tyr Lys Thr Ile His 1 5 10 15

Tyr Ala Tyr Asp Ser Cys Asn Asn Lys Lys Val Gln Gly Thr Ile Ile 20 25 30

Ser Tyr Asn Arg Gly Ile Thr Ser His Arg Glu Gln Gln Tyr His Ile 35 40 45

Ala Gly Ile Tyr Thr Arg Ile Leu Gly Asn Leu Val Trp Ile Tyr Thr 50 55 60

Arg Ile Pro Gly Asp Pro Val Trp Leu Val Arg Gly Phe Pro Glu Lys 65 70 75 80

Xaa Ile Ser Glu Ser

<210> 143

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 143

Met Lys Asn Met His Val Tyr Leu Asn Tyr Asn Asn Phe Leu Leu Xaa

Leu Leu Arg Leu Met Leu Asn Ile Cys Ser Phe Thr Gln Pro Leu Val

Ala Glu Glu Arg Pro Leu Thr Pro Leu

<210> 144

<211> 65

<212> PRT

<213> Homo sapiens

<400> 144

Met Asp Glu Glu Arg Glu Ile Ile Ser His Gly Glu Phe Cys Asn Val

40

Ser Arg Glu Arg Asp Trp Val Gly Arg Gln Ala Ser Gln Phe Val Lys 25

Cys Lys Gly Thr Thr His Arg Thr Leu Ser Leu Thr Arg Ala Val Ser 35

Tyr Val Val Leu Ser Pro Leu Ala Lys Asp Leu Pro Leu Leu Ala Ser . 55

Asp 65

<210> 145

<211> 312

<212> PRT

<213> Homo sapiens

<400> 145

Met Ala Ala Gly Val Asp Cys Gly Asp Gly Val Gly Ala Arg Gln His

Val Phe Leu Val Ser Glu Tyr Leu Lys Asp Ala Ser Lys Met Lys 20

Asn Gly Leu Met Phe Val Lys Leu Val Asn Pro Cys Ser Gly Glu Gly 40

Ala Ile Tyr Leu Phe Asn Met Cys Leu Gln Gln Leu Phe Glu Val Lys 55

Val Phe Lys Glu Lys His His Ser Trp Phe Ile Asn Gln Ser Val Gln 75 70 65

Ser Gly Gly Leu Leu His Phe Ala Thr Pro Val Asp Pro Leu Phe Leu 90 85

Leu Leu His Tyr Leu Ile Lys Ala Asp Lys Glu Gly Lys Phe Gln Pro 100

Leu Asp Gln Val Val Val Asp Asn Val Phe Pro Asn Cys Ile Leu Leu 120 115

Leu Lys Leu Pro Gly Leu Glu Lys Leu Leu His His Val Thr Glu Glu 140 135

Lys Gly Asn Pro Glu Ile Asp Asn Lys Lys Tyr Tyr Lys Tyr Ser Lys 145 150 155 160

Glu Lys Thr Leu Lys Trp Leu Glu Lys Lys Val Asn Gln Thr Val Ala 165 170 175

Ala Leu Lys Thr Asn Asn Val Asn Val Ser Ser Arg Val Gln Ser Thr 180 185 190

Ala Phe Phe Ser Gly Asp Gln Ala Ser Thr Asp Lys Glu Glu Asp Tyr
195 200 205

Ile Arg Tyr Ala His Gly Leu Ile Ser Asp Tyr Ile Pro Lys Glu Leu 210 215 220

Ser Asp Asp Leu Ser Lys Tyr Leu Lys Leu Pro Glu Pro Ser Ala Ser 225 230 235 240

Leu Pro Asn Pro Pro Ser Lys Lys Ile Lys Leu Ser Asp Glu Pro Val 245 250 255

Glu Ala Lys Glu Asp Tyr Thr Lys Phe Asn Thr Lys Asp Leu Lys Thr 260 265 270

Glu Lys Lys Asn Ser Lys Met Thr Ala Ala Gln Lys Ala Leu Ala Lys 275 280 285

Val Asp Lys Ser Gly Met Lys Ser Ile Asp Thr Phe Phe Gly Val Lys 290 295 300

Asn Lys Lys Lys Ile Gly Lys Val 305 310

<210> 146

<211> 58

<212> PRT

<213> Homo sapiens

<400> 146

Met Asp Lys Asn Val Thr Arg Ser Arg Thr Ile Lys Leu Val Gln Ala-1 5 10 15

Ser Trp Thr Pro Pro Phe Gln Leu Pro Ala Phe Cys Leu Met Pro Val

Cys Gln Trp Leu Glu Leu Gly Leu Leu Phe Arg Thr Ser Val Ala Ile 35 40 45

Leu Ile Leu Pro Trp Gly His Asn Cys Pro. 50 55

<210> 147

<211> 63

<212> PRT

<213> Homo sapiens

<400> 147

Met Gly Gln Thr Glu Ala Met Gln Glu Glu Met Arg Thr Arg Thr Cys
1 5 10 15

Thr Thr Thr Pro Gln Pro Met Glu Thr Ile Arg Gln Asn Lys Thr Arg
20 25 30

Arg His Met Thr Arg Lys Gln Ala Trp Thr Leu Gln Lys Cys Gln Cys 35 40 45

His Glu Arg Gln Lys Leu Gly Met Leu Phe Trp Ile Lys Gly Asp 50 55 60

<210> 148

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals stop translation

<400> 148

Met Tyr Leu Ile His Leu Tyr Gln Val Leu Lys Tyr Leu Asp Lys Ser 1 5 10 15

Lys Tyr Phe Val Phe Ser Phe Phe Leu Leu Ser Ile Leu Leu Thr Thr 20 25 30

Val Lys Arg Cys Ser Ile Leu Ile Trp Ser Val Leu Arg Arg Lys Thr
35 40 45

Met Lys Ala Glu Leu Val Cys Ala Thr Gln Ser Lys Pro Leu Leu Phe 50 55 . 60

Phe Trp Lys Asp Gly Val Met Phe Phe Lys Asp Ser Asn Lys Tyr Pro 65 70 75 80

Ala Val Ile Ser Xaa 85

<210> 149

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals stop translation

<400> 149

Met Thr Ser Tyr Ile Ile Asn Leu Ser Phe Phe Leu Pro Leu Ala Thr 1 5 10 15

Arg Lys Val Ser Ala Lys Pro Cys Gly Xaa 20 25

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<210> 150
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (49)

<223> Xaa equals stop translation

Gln Thr Leu Leu His Ala Val Tyr Gly Val Ser Cys Val Leu Ile Phe 35 40 45

Xaa

<210> 151 <211> 63 <212> PRT

<213> Homo sapiens

<400> 151

Met Val Cys Gly Val Phe Cys Cys Leu Pro Leu Glu Val Leu Pro Phe 1 5 10 15

Ser Arg Pro Ile Asn Val Leu Trp Leu Leu Asn Tyr Ser Ser Thr Leu 20 25 30

Gln Cys Thr Gly Phe Pro Pro Gly Val Asn Thr Asn Gly Gly His Leu 35 40 45

Leu Val Phe Leu Glu Val Leu Gly Glu Phe Ser Asp Leu Trp Leu 50 55 60

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<211> 34
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (34)
<223> Xaa equals stop translation
<400> 152
Met Ser Ser Gly Leu Phe Leu Val Leu Phe Cys Phe Leu Cys Val Phe
                  5
Val Gly Phe Phe Asp Phe His Cys Trp Cys Asp Ile Leu Val Lys Ser
Ser Xaa
<210> 153
<211> 211
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (211)
<223> Xaa equals stop translation
<400> 153
Met Arg Cys Leu Thr Thr Pro Met Leu Leu Arg Ala Leu Ala Gln Ala
                  5
Ala Arg Ala Gly Pro Pro Gly Gly Arg Ser Leu His Ser Ser Ala Val
Ala Ala Thr Tyr Lys Tyr Val Asn Met Gln Asp Pro Glu Met Asp Met
Lys Ser Val Thr Asp Arg Ala Ala Arg Thr Leu Leu Trp Thr Glu Leu
Phe Arg Gly Leu Gly Met Thr Leu Ser Tyr Leu Phe Arg Glu Pro Ala
                                          75
Thr Ile Asn Tyr Pro Phe Glu Lys Gly Pro Leu Ser Pro Arg Phe Arg
Gly Glu His Ala Leu Arg Arg Tyr Pro Ser Gly Glu Glu Arg Cys Ile
            100
Ala Cys Lys Leu Cys Glu Ala Ile Cys Pro Ala Gln Ala Ile Xaa Ile
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115 120 125

Glu Ala Glu Pro Arg Ala Asp Gly Ser Arg Arg Thr Thr Arg Tyr Asp 130 135 140

Pro Val Asp Ala Ile Val Glu Gly Pro Asn Phe Glu Phe Ser Thr Glu 165 170 175

Thr His Glu Glu Leu Leu Tyr Asn Lys Glu Lys Leu Leu Asn Asn Gly
180 185 190

Asp Lys Trp Glu Ala Glu Ile Ala Ala Asn Ile Gln Ala Asp Tyr Leu 195 200 205

Tyr Arg Xaa 210

<210> 154

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals stop translation

<400> 154

Met Leu Pro Gly Leu Arg Arg Leu Leu Gln Ala Pro Ala Ser Ala Cys
1 5 10 15

Leu Leu Met Leu Leu Ala Leu Pro Leu Ala Ala Pro Ser Cys Pro 20 25 30

Met Leu Cys Thr Cys Tyr Ser Ser Pro Pro Thr Val Lys Leu Pro Gly 35 40

Gln Gln Leu Leu Cys Ala Ala Val Pro Ala Thr Gln His Ser Ala 50 55 60

Thr Leu Pro Ala Glu Gln Pro His Pro His Ala Ala Xaa Arg His Leu 65 70 75 80

Trp Val Gln Pro Ala His Pro Val Ala Leu Leu Gln Gln Pro Leu His
85 90 95

His Leu Pro Gly His Phe Pro Pro Leu Ala Ser Pro Gly Gly Ser Gly 100 105 110

Pro Arg Xaa 115

<210> 155

<211> 227

<212> PRT

<213> Homo sapiens

<400> 155

Met Asp Phe Glu Asn Leu Phe Ser Lys Pro Pro Asn Pro Ala Leu Gly
1 5 10 15

Lys Thr Ala Thr Asp Ser Asp Glu Arg Ile Asp Asp Glu Ile Asp Thr 20 25 30

Glu Val Glu Glu Thr Gln Glu Glu Lys Ile Lys Leu Glu Cys Glu Gln 35 40 45

Ile Pro Lys Lys Phe Arg His Ser Ala Ile Ser Pro Lys Ser Ser Leu 50 55 60

His Arg Lys Ser Arg Ser Lys Asp Tyr Asp Val Tyr Ser Asp Asn Asp 65 70 75 80

Ile Cys Ser Gln Glu Ser Glu Asp Asn Phe Ala Lys Glu Leu Gln Gln 85 90 95

Tyr Ile Gln Ala Arg Glu Met Ala Asn Ala Ala Gln Pro Glu Glu Ser 100 105 110

Thr Lys Lys Glu Gly Val Lys Asp Thr Pro Gln Ala Ala Lys Gln Lys 115 120 125

Asn Lys Asn Leu Lys Ala Gly His Lys Asn Gly Lys Gln Lys Lys Met 130 135 140

Lys Arg Lys Trp Pro Gly Pro Gly Asn Lys Gly Ser Asn Ala Leu Leu 145 150 155 160

Arg Asn Ser Gly Ser Gln Glu Glu Asp Gly Lys Pro Lys Glu Lys Gln 165 170 175

Gln His Leu Ser Gln Ala Phe Ile Asn Gln His Thr Val Glu Arg Lys 180 185 190

Gly Lys Gln Ile Cys Lys Tyr Phe Leu Glu Arg Lys Cys Ile Lys Gly 195 200 205

Asp Gln Cys Lys Phe Asp His Asp Ala Glu Ile Glu Lys Lys Lys 210 215 220

Lys Thr Arg 225

<210> 156 <211> 114

<212> PRT

<213> Homo sapiens

<400> 156

Met His Gln Val Ser Thr Cys Phe Gly Pro Gly Arg Gly Leu Ala Leu 1 5 10 15

Thr Phe Met Thr Leu His Ser Phe Arg Glu Ala Ile Thr Leu Asp Cys
20 25 30

Asn Thr Asn Asp Arg Arg Pro Ser Gly Gln Arg Pro Pro Arg Pro Ser 35 40 45

Ala Pro Gln Arg Arg Gly Pro Arg Gly Arg Arg Cys Pro Ser Cys Ser 50 55 60

Pro Cys Ala Leu Ser Leu Thr Ser Pro Gly Ser Cys Leu Leu Lys Thr 65 70 75 80

Pro Val Phe Thr Pro Tyr Lys Ala Ser Ser Glu Gln Thr Gly Arg Pro 85 90 95

Leu Val Glu Pro Ala His Pro Val Pro Ser Ala Trp Arg Pro Gly Pro
100 105 110

Arg Ala

<210> 157

<211> 46

<212> PRT

<213> Homo sapiens

<400> 157

Met Ser Arg Thr Asn Thr Trp Val Ser Trp Gln Ala Ser Arg Ala Asp 1 5 10 15

Trp Pro Glu Thr Asp Pro Gln Glu Ala Leu Gln Pro Ala Leu Val Pro 20 25 30

Ser His Ser Asp Leu Asn Pro Gly Ser Ser Arg Ser Ala Val

<210> 158

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals stop translation

<400> 158

Met Leu Phe Gln Cys Gln Val Leu Leu Ser Ile Phe Ser Phe Leu Glu
1 5 10 15

<221> SITE <222> (56)

<400> 161

<223> Xaa equals stop translation

Pro Val Leu Ser Ser Gly Ser Ser Arg Leu Val Phe Tyr Asn Leu Ser Asn Ile Met Xaa 35 <210> 159 <211> 38 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (38) <223> Xaa equals stop translation <400> 159 Met Val Phe Ser Ala Lys Ile Gly Val Arg Tyr Phe Leu Val Leu Ser 1 Cys Leu Pro Asn Cys Cys Leu Pro Ala Asp Trp Trp His Ala Gln Trp 25 20 Leu Trp Gly Gln Gly Xaa 35 <210> 160 <211> 30 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (30) <223> Xaa equals stop translation <400> 160 Met Tyr Phe Ser Leu Leu Val Leu Leu Phe Ser Pro Ser Val Leu Phe 15 5 Leu Ala Arg Lys Lys Cys Thr Arg Asn Asn Thr Leu Asn Xaa 20 <210> 161 <211> 56 <212> PRT <213> Homo sapiens <220>

Met Val Lys Leu Ser Lys Glu Ala Lys Gln Arg Leu Gln Gln Leu Phe 1 5 10 15

Lys Gly Ser Gln Phe Ala Ile Arg Trp Gly Phe Ile Pro Leu Val Ile 20 25 30

Tyr Leu Gly Phe Lys Arg Gly Ala Asp Pro Gly Met Pro Glu Pro Thr 35 40 45

Val Leu Ser Leu Leu Trp Gly Xaa 50 55

<210> 162

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals stop translation

<400> 162

Met Leu Gly Phe Ala Phe Arg Asp Lys Arg Trp Trp Ile Tyr Phe Ala

Cys Ser Lys Asp Ser Gln Gly Val Arg Ala Ala Tyr Cys Gln Ile Leu 20 25 30

Leu Leu Phe Tyr Val Ser Val Tyr Ser Leu Ser Phe Ser Tyr Leu Leu 35 40 45

Asp His Phe Cys Ser Leu Pro Lys Pro Leu Leu Phe Gly Thr Val Ser 50 60

Gln Ile Pro His Phe Xaa 65 70

<210> 163

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals stop translation

<400> 163

Met Cys Ser Tyr Cys Met Pro Tyr Leu Ile Ile Phe Leu Ser Val Ile
1 5 10 15

His Asn His Lys Thr Ile Pro Leu Leu Lys Val Leu Val Asp Lys Leu 20 25 30

Asn Cys Ile Ile Thr Asp Leu Cys Ile Ser Arg Asp Asp Val Phe Pro

35 40 45 .

Thr Thr Cys Xaa 50

<210> 164

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals stop translation

<400> 164

Met Cys Ala Asp Asp Leu Leu Ser Val Leu Leu Tyr Leu Leu Val Lys
1 5 10 15

Thr Glu Ile Pro Asn Trp Met Ala Asn Leu Ser Tyr Ile Lys Asn Phe 20 25 30

Arg Phe Ser Ser Leu Ala Lys Asp Glu Leu Gly Ile Leu Pro Asp Leu 35 40 45

Ile Arg Xaa Cys Pro Leu Asn Ile Arg Gln Gly Ser Leu Ser Ala Lys 50 60

Pro Pro Glu Ser Glu Gly Phe Gly Asp Arg Leu Phe Leu Lys Gln Arg
65 70 75 80

Met Ser Leu Leu Ser Gln Met Thr Ser Ser Pro Thr Asp Cys Leu Phe 85 90 95

Lys Ala Asp Ala Leu Leu Glu Xaa 100

<210> 165

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals stop translation

<400> 165

Met Ala Arg Ile Thr Gly Pro Pro Glu Arg Asp Asp Pro Tyr Pro Val .

1 10 15

Leu Phe Arg Tyr Leu His Ser His His Phe Leu Glu Leu Val Thr Leu 20 25 30

Leu Leu Ser Ile Pro Val Thr Ser Ala His Pro Gly Val Leu Gln Ala 35 40 45

Thr Lys Asp Val Leu Lys Phe Leu Ala Gln Ser Gln Lys Gly Leu Leu 50 55 60

Phe Phe Met Ser Glu Tyr Glu Ala Thr Ile Tyr Xaa 65 70 75

<210> 166

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals stop translation

<400> 166

Met Lys Gln Thr Arg Leu Asn Pro Pro Val Val Phe Ile Leu Leu Gln 1 5 10 15

Pro Leu Ser Arg Pro Arg Asp Gly Leu Ser Asn Ser Val Leu Ile Ile 20 25 30

Leu His Ser Val Pro Xaa 35

<210> 167

<211> 272

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (180) <223> Xaa equals any of the naturally occurring L-amino acids <400> 167 Met Ser Ala Leu Arg Arg Ser Gly Tyr Gly Pro Ser Asp Gly Pro Ser Tyr Gly Arg Tyr Tyr Gly Pro Gly Gly Gly Asp Val Pro Val His Pro 20 Pro Pro Pro Leu Tyr Pro Leu Arg Pro Glu Pro Pro Gln Pro Pro Ile Ser Trp Arg Val Arg Gly Gly Gly Pro Ala Glu Thr Thr Trp Leu Gly Glu Gly Gly Gly Asp Gly Tyr Tyr Pro Ser Gly Gly Ala Trp Pro Glu Pro Gly Arg Ala Gly Gly Ser His Gln Ser Leu Asn Ser Tyr Thr Asn Gly Ala Tyr Gly Pro Thr Tyr Pro Pro Gly Pro Gly Ala Asn Thr 110 105 Ala Phe Ile Leu Arg Gly Leu Xaa Cys Thr Trp Leu Tyr Ser Asp Gln 115 120 Leu Leu His Arg Ile Pro Ser Thr Tyr Arg Ser Ser Gly Asn Ser Pro 135 Thr Pro Val Ser Arg Trp Ile Tyr Pro Gln Gln Asp Cys Gln Thr Glu 150 145 Ala Xaa Pro Leu Arg Gly Lys Val Pro Gly Tyr Pro Pro Ser Xaa Xaa 170 165 Pro Gly Met Xaa Leu Pro His Tyr Pro Tyr Gly Asp Gly Asn Arg Ser 190 185 Val Pro Gln Ser Gly Pro Thr Val Arg Pro Gln Glu Asp Ala Trp Ala 200 195 Ser Pro Gly Ala Tyr Gly Met Gly Gly Arg Tyr Pro Trp Pro Ser Ser 215 Ala Pro Ser Ala Pro Pro Gly Asn Leu Tyr Met Thr Glu Val Leu His 230

His Gly Leu Ala Val Ala Leu Pro Ser His Pro Leu His Pro Gln Ser

Ser Ser Pro Arg Ile Leu His Thr Pro Ile Ala Asn Gln Ile Lys Ala 265

260

250

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<210> 168
<211> 26
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (26)
<223> Xaa equals stop translation
<400> 168
Met Ile Leu Thr Phe Cys Val Phe Leu Leu Phe Ser Phe His Asn Ala
Ile Lys Ser Thr Pro Phe Leu Lys Phe Xaa
             20
<210> 169
<211> 26
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (26)
<223> Xaa equals stop translation
<400> 169
Met Lys Leu Ile Tyr Tyr Cys His Leu Val Asp Ile Leu Leu Gln
Ala Ile Ile Lys Xaa Asn Ala Gly Met Xaa
              20
<210> 170
<211> 132
 <212> PRT
 <213> Homo sapiens
 <400> 170
Met Ile Glu Cys Pro Asp Trp Ala Arg Thr Ala Ser Leu Ala Lys Gln
                                                          15
 Arg Arg Lys Val Phe Lys Gln Met Leu Ser Ser Phe Leu His Phe His
              20
 Phe Asn Ser Met Met Pro Leu Cys Pro Ser Asp Asp Ile Ser Pro Gly
```

35 40 45 .

Val Trp Asp Ser Ala Gly Leu Pro Cys Leu Leu Arg Arg Leu Pro Gly 50 55 60

His His Gln Ala Gly Lys Pro Gln Ser Pro Pro Ser Ser Thr Trp Asp 65 70 75 80

Pro Trp Ala Ser Ser Ile Ser Leu Thr Arg Lys Pro Val Leu Leu Leu 85 90 95

Ile Leu Gly Pro His Pro Arg Pro Ile Gln Arg Lys Thr Pro Gly Ala 100 105 110

Ala Leu Gly Ser Leu Cys Phe His Gln Ile Cys Val Lys Thr Gln Met 115 120 125

Asn Gln Pro Arg 130

<210> 171

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals stop translation

<400> 171

Met Arg Ala Thr Ile Val Arg Pro Tyr Cys Gln Glu Gly Gly Phe Trp 1 5 10 15

Leu Leu Ala Leu Val Tyr Lys Gly Ala Arg Ala Ala Pro Leu Asp Tyr 20 25 30

Ser Trp Glu Asp Ser Asp Ala Gly Arg Leu Leu Pro Trp Val Thr 35 40 45

Ser Ser Leu Leu Ala Asp Ile Trp Gly Phe Asp Pro Phe Phe Asn 50 55 60

Leu Leu Leu Arg Cys Ile Xaa 65 . 70

<210> 172

<211> 75

<212> PRT

<213> Homo sapiens

<400> 172

Met Phe Tyr Val Tyr Asp His Ser Met Tyr Val Asp Thr His Thr His

1 10 15

Thr His Val Pro Ser Leu Tyr Thr Asn Gly Asn Ile Leu Lys Ile Leu

20 25 30

Phe Cys Thr Phe Thr Val Gln Val Pro Tyr Ser Pro Leu Ser Thr Trp 35 40 45

Gln Arg Pro Lys Pro Val Lys Gly Arg Val Ser Thr Trp Pro Pro Ser 50 55 60

Ser Met Ser Ser Ala Arg Ser Pro Gln Gly Pro 65 70 75

<210> 173

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals stop translation

<400> 173

Met Ala Leu Leu Val Leu Thr Leu Tyr Cys Ile Leu Phe Leu Lys Ile .

1 5 10 15

Tyr Met Pro Val Pro Ser His Cys Glu Gln Phe Lys Gly Arg Asn Xàa 20 25 30

<210> 174

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals stop translation

<400> 174

Met Gln Asn Asp Gly Leu Lys Phe Met Glu Met Val Leu His Val Leu 1 5 10 15

Gln Ala Ser Ile Gly Val Leu Leu Leu Met Val Asp Val Leu Glu His
20 25 30

Phe Leu Ala Met Leu Ile Gly Asn Ala Gly Ala Pro Leu Pro Leu Leu 35 40 45

Asp Val Leu Gly Lys Asp Val Ile Asp Val Ala Glu Arg Arg Glu Ser 50 55 60

Lys Lys Xaa

65,

<210> 175

<211> 128

<212> PRT

<213> Homo sapiens

<400> 175

Met Gln Trp Gly Glu Gly Ala Gly Pro Ser Trp Val Tyr Ile Leu Ser 1 5 10 15

Trp Asp Ser Arg Ala Ser Leu Cys Met Cys Ala Ala Ser Arg Tyr Leu 20 25 30

Cys Thr Gly Thr Asp Pro Pro Thr Arg Gly Asp Thr Ser Thr Pro His

Lys Ala Ile Leu Pro Leu Asp Pro Cys Pro Gln Ile Ser Arg Thr Ala 50 55 60

Arg Ala Glu Phe Leu Gln Pro Gly Gly Ser Thr Ser Ser Arg Ala Ala 65 70 75 80

Ala Thr Ala Val Glu Leu Gln Leu Leu Phe Pro Leu Val Arg Val Asn 85 90 95

Phe Glu Leu Gly Val Ile Met Val Ile Ala Val Ser Cys Val Lys Leu 100 105 110

Leu Ser Ala His Asn Ser Thr Gln His Thr Ser Arg Lys His Lys Val

<210> 176

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals stop translation

<400> 176

Met Gly Ser Val Trp Asn Cys Leu Leu Ala Leu Leu Glu Lys His Leu 1 5 10 15

Ile Thr Leu Tyr Lys Leu Ile Ile Thr Val Leu Leu Asp Leu Leu Ser 20 25 30

Ala Arg His Lys Cys Phe Thr Ser Val Asn Ser Phe Asn Xaa 35 40 45

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<211> 42
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (42)
<223> Xaa equals stop translation
<400> 177
Met Asn Ser Thr Cys Gly Phe Val Thr Ser Ile Asn Gln Ile Phe Leu
                                     10
Ile Ile Leu Trp Xaa Leu Tyr Leu Pro Leu Leu Thr Thr Thr Leu Glu
                                 25
             20
Ile Trp Glu Leu Leu Xaa Leu Leu His Xaa
                             40
<210> 178
<211> 73
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (73)
<223> Xaa equals stop translation
<400> 178
Met Cys Gly Gly His Ala Ile Asn Val Gly Pro Phe Thr Val Ala Gly
Arg Gly Arg Asn Leu Gln Phe Leu Arg Val Leu Leu Arg Cys Pro
             20
Pro Val Leu Gly His Ser Cys Ser Xaa Pro Cys Pro Ala Trp Ser His
                              40
Pro Pro Ser Ala Asn Arg Ser Leu Gly Arg Val Leu Trp Ala Leu Ile
```

<222> (55)

<223> Xaa equals stop translation

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Arg Pro Trp Gln Gly Arg Ser Ser Xaa
65
<210> 179
<211> 31
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (31)
<223> Xaa equals stop translation
<400> 179
Met Val Leu Pro Arg Ile Leu Val Leu Met Leu Phe Leu Ala Leu Lys
Asn Pro Val Gly Glu Met Arg Asn Leu Thr His Cys Arg Cys Xaa
                       . 25
<210> 180
<211> 72
<212> PRT
<213> Homo sapiens
<400> 180
Met Asp Thr Arg Gly Val Val Leu Arg Ser Gly Glu Phe Asn Arg Gln
Glu Gly Arg Glu Lys Thr Glu Gly Arg Ser Ser Ser Ile Trp Arg Gln
Arg Glu Gly Gly Ser Lys Ala Lys Arg Gly Gly Pro Gln Val Gln Trp
         35
Thr Pro Ala Lys Tyr Ile Cys Arg Gly Trp Lys Gly Arg Cys Leu Ile
Tyr Ile Gly Leu Arg Gly Leu Val
 65 70
<210> 181
<211> 55
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
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<210> 182 <211> 67 <212> PRT <213> Homo sapiens <220> <221> SITE

<222> (67) <223> Xaa equals stop translation

Ala Leu Pro Leu Ala Ser Pro Gln Phe Thr Asn Glu Glu Ser Ser Tyr
20 25 30

Thr Ala Leu Arg Ser Cys Thr Arg Gly Gly Phe Glu Ser Arg Ser Leu 35 40 45

Gly Thr Gln Lys Ser Cys Thr Phe Gln Gly Lys Gly Asp Tyr His Val
50 55 60

Thr Ala Xaa 65

<210> 183
<211> 74
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (74)

<223> Xaa equals stop translation

<400> 183
Met Thr Thr Leu Phe Glu Thr Asp Arg Cys Leu Leu Phe Leu Val Met
1 5 10 15

Ser Arg Phe Gly Phe Lys Ser Arg Leu Glu Ala Thr Ser Cys Lys Gln
20 25 30

Val Gln Glu Asn Glu Thr Arg Arg Val Gly Asp Thr Arg Met Lys Thr 35 40 45

Ser Val Arg Val Lys Thr Lys Gln Thr Met Tyr Ile Ile Cys Ile Trp 50 55 60

Glu Lys Lys Glu Arg Asn Tyr Leu Thr Xaa 65 70

<210> 184

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals stop translation

<400> 184

Met Val Ser Asp Ile Ser Gly Gln Lys Gln Ser Leu Glu Ala Val Lys
1 5 10 15

Glu His Leu Leu Phe Ile Trp Leu Pro Val Tyr Lys Ser Thr His Glu 20 25 30

Gly Pro Asn Ser Lys Ile Ser Asn Tyr Gln Val Leu Xaa 35 40 45

<210> 185

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals stop translation

<400> 185

Met Arg Pro Leu Leu Cys Ala Leu Thr Gly Leu Ala Leu Leu Arg Ala 1 5 10 15

Ala Gly Ser Leu Ala Ala Ala Glu Pro Phe Ser Pro Pro Arg Gly Asp 20 25 30

Ser Ala Gln Ser Thr Ala Cys Asp Arg His Met Ala Val Gln Arg Arg 35 40 45

Leu Asp Val Met Glu Glu Met Val Glu Lys Thr Val Asp His Leu Gly 50 55 60

Thr Glu Val Lys Gly Leu Leu Gly Leu Leu Glu Glu Leu Ala Trp Asn 65 70 75 80

Leu Pro Pro Gly Pro Phe Ser Pro Ala Pro Asp Leu Leu Gly Asp Gly 85 90 95

Phe Xaa

<210> 186

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals stop translation

<400> 186

Met Ala Ser Leu Leu Asp Asn Phe Ile Leu Asn Ile Ile Val Ile Phe 1 5 10 15

Cys Ile Val Ile Asp Ser Tyr Leu Cys Gly Phe Met Tyr Phe Phe Val
20 25 30

Ile Asp Ser Pro Val Pro Ala Cys Ser Pro Leu Gln Leu Ser Gln Thr 35 40 45

Leu Ile Leu Gln Leu Gln Pro Thr Ala Arg Tyr Phe His Xaa 50 55 60

<210> 187

<211> 40

<212> PRT

<213> Homo sapiens

<400> 187

Met Cys Ile Phe Glu Cys Met Cys His Phe Phe Ile Asp Ile Ser Asn 1 5 10 15

His Tyr Tyr Val Val Arg Phe Tyr Pro Glu Asp Ser Leu Pro Lys Thr 20 25 30

Phe Ile Tyr Asp Pro Phe Lys Ala 35 40

<210> 188

<211> 153

<212> PRT

<213> Homo sapiens

<400> 188

Met Cys Glu Ser Asn Ser Thr Met Pro Gly Pro Ser Leu Glu Ser Pro 1 5 10 15

Val Ser Thr Pro Ala Gly Lys Ile Gly Leu Ala Val Cys Tyr Asp Met 20 25 30

Arg Phe Pro Glu Leu Ser Leu Ala Leu Ala Gln Ala Gly Ala Glu Ile 35 40 45

Leu Thr Tyr Pro Ser Ala Phe Gly Ser Ile Thr Gly Pro Ala His Trp 50 55 60

Glu Val Leu Leu Arg Ala Arg Ala Ile Glu Thr Gln Cys Tyr Val Val 65 70 75 80

Ala Ala Ala Gln Cys Gly Arg His His Glu Lys Arg Ala Ser Tyr Gly 85 90 95

His Ser Met Val Val Asp Pro Trp Gly Thr Val Val Ala Arg Cys Ser 100 105 110

Glu Gly Pro Gly Leu Cys Leu Ala Arg Ile Asp Leu Asn Tyr Leu Arg 115 120 125

Gln Leu Arg Arg His Leu Pro Val Phe Gln His Arg Arg Pro Asp Leu 130 135 140

Tyr Gly Asn Leu Gly His Pro Leu Ser 145 150

<210> 189

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals stop translation

<400> 189

Met Asn Ile Leu Met Phe Ala Phe Met Ile Ile Phe Met Gly Ala Lys
1 5 10 15

Phe Gln Glu Val Glu Phe Trp Val Arg Gly Tyr Asp His Leu Lys Ala-20 25 30

Thr Leu Phe Asp Gln Ile Gly Arg Tyr Leu Lys Met Gly Gln Glu 35 40 45

Pro Leu Leu Ala Lys Val Trp Val Arg Gly Thr Xaa 50 55 60

<210> 190

<211> 108

<212> PRT

<213> Homo sapiens

<400> 190

Met Ser Ser Val Ser Leu Ser Ala Ser Ser Ser Ser Ser Ser Lys Val 1 5 10 15

Pro Arg Val Arg Ile Lys Ser Glu Gly Cys Ser Thr Gly Asp Lys Leu 20 25 30

Ser Leu Ala Val Pro Ala Ser Lys Ala Thr Glu Pro Ile Ser Phe Arg 35 40 45

Arg Arg Ser Ser Cys Ser Leu Cys Cys Trp Leu Ser Ala Leu Ala Ser 50 55 60

Asp Phe Phe Arg Arg Ser Tyr Ser Gly Arg Tyr Ser Leu Ser Tyr Ser 65 70 75 80

Ser Ala Ala Leu Val Thr Cys Thr Lys Ser Ser Ser Asn Pro Val Pro 85 90 95

Arg Thr Ala Glu Thr Pro Thr Thr Leu Ser Glu Leu 100 105

<210> 191

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals stop translation

<400> 191

Met Ser Ile Thr Leu Ile Gln Leu Met Phe Tyr Phe Asn Thr Pro Glu
1 5 10 15

Leu Pro His Lys Thr Ser Phe His Val Lys Gly Ser Arg Xaa 20 25 30

<210> 192

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals stop translation

<400> 192

Met Ser Leu Leu Phe Leu Lys Val His Leu Phe Ser Pro Ser Thr
1 5 10 15

Ile Phe Lys Arg Asn Asn Xaa 20

<210> 193

<211> 106

50

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<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (106)
<223> Xaa equals stop translation
<400> 193
Met Gly Pro Ala Leu Met Val Ala Ser Leu Cys Leu Gly Gly Pro Ala
                                     10
Pro Ala Val Gly Ala Ile Thr Pro Ser Pro Phe Ile Thr Ser Leu Arg
                                25
             20
Trp Ala Pro Ser Pro Ala Gly Cys Leu Pro Ser Gly Asn Ser Arg Thr
                             40
Leu Arg Asp Thr Arg Ala Ala Trp Pro Arg Gly Ala Thr Ala Arg Pro
                                             60
     50
                         55
Pro Gly Gly Gln Pro Trp Arg Glu Leu Arg Pro Thr Tyr Ser Gly Val
Trp Glu Pro Cys Leu Tyr Leu Gly Xaa Ser Pro Ser Gln Leu Pro Pro
                                     90
Cys Val Phe Pro Pro Ala Lys Val Gly Xaa
            100
<210> 194
<211> 54
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (54)
<223> Xaa equals stop translation
Met Lys Val Gln Ser Phe Tyr Lys Thr Leu Ile Pro Leu Leu Thr Ile
Phe Met Met Val Ala Leu Val Asn Phe Thr Gly Lys Lys Asn Ser Gln
Asn Tyr Pro Ala Gly Asn Ile Ser Ser Leu Pro Lys Asp Lys Thr Val
                             40
Lys Thr Arg Leu Gly Xaa
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<210> 195
<211> 98
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (98)
<223> Xaa equals stop translation
Met Arg Asp Pro Leu Asn Arg Val Leu Ala Asn Leu Phe Leu Leu Ile
                                     10
Ser Ser Ile Leu Gly Ser Arg Thr Ala Gly Pro His Thr Gln Phe Val
Gln Trp Phe Met Glu Glu Cys Val Asp Cys Leu Glu Gln Gly Gly Arg
                             40
         35
Gly Ser Val Leu Gln Phe Met Pro Phe Thr Thr Val Ser Glu Leu Val
Lys Val Ser Ala Met Ser Ser Pro Lys Val Val Leu Ala Ile Thr Asp
Leu Ser Leu Pro Leu Gly Arg Gln Val Ala Ala Lys Ala Ile Ala Ala
                 85
                                     90
Leu Xaa
<210> 196
<211> 25
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (25)
<223> Xaa equals stop translation
<400> 196
Met Gln Gly Ser Pro Leu Val Thr Ala Ile Tyr Lys Ile Phe Leu Leu
Ser Leu Leu Val Arg Gly Ile Cys Xaa
             20
<210> 197
<211> 126
<212> PRT
<213> Homo sapiens
```

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<220>
<221> SITE
<222> (126)
<223> Xaa equals stop translation
<400> 197
Met Ala Phe Asn Gly Ile Ile His Ala Leu Ala Ser Pro Leu Leu Ala
                                     1.0
Pro Pro Gln Pro Gln Ala Val Leu Ala Pro Glu Ala Pro Pro Val Ala
                                 25
             20
Ala Gly Val Gly Ala Val Leu Ala Ala Gly Ala Leu Leu Gly Leu Val
Ala Gly Ala Leu Tyr Leu Arg Ala Arg Gly Lys Pro Met Gly Phe Gly
Phe Ser Ala Phe Gln Ala Glu Asp Asp Ala Asp Asp Asp Phe Ser Pro
Trp Gln Glu Gly Thr Asn Pro Thr Leu Val Ser Val Pro Asn Pro Val
Phe Gly Ser Asp Thr Phe Cys Glu Pro Phe Asp Asp Ser Leu Leu Glu
                                 105
Glu Asp Phe Pro Asp Thr Gln Arg Ile Leu Thr Val Lys Xaa
                            120
<210> 198
<211> 24
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (24)
<223> Xaa equals stop translation
<400> 198
Met Leu Val Glu Lys Ile Leu Leu Ile Glu Cys Leu Ser Ser Glu Ser
                                     10
Gln Leu Ile Gly Phe Leu Leu Xaa
             20
<210> 199
<211> 81
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (81)
<223> Xaa equals stop translation
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<211> 11 <212> PRT

<213> Homo sapiens

<400> 199 Met Glu Ala Lys Phe Leu Gly Asn Ala Pro Cys Gly His Tyr Thr Phe 10 Lys Phe Pro Gln Ala Met Arg Thr Glu Ser Asn Leu Gly Ala Lys Val 25 Phe Phe Lys Ala Leu Leu Thr Gly Asp Phe Ser Gln Ala Gly 40 Asn Lys Gly His His Val Trp Val Thr Lys Asp Glu Leu Gly Asp Tyr Leu Lys Pro Lys Tyr Leu Ala Gln Val Arg Arg Phe Val Ser Asp Leu Xaa <210> 200 <211> 23 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (23) <223> Xaa equals stop translation Met Leu Thr Phe Leu Ile Phe Leu Phe Pro Glu Val Val Leu Gly Leu 5 10 Leu Arg Asp Tyr Ser Ser Xaa 20 <210> 201 <211> 9 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (9) <223> Xaá equals stop translation <400> 201 Met His Val Tyr Leu Asn Tyr Lys Xaa <210> 202

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<220>
<221> SITE
<222> (11)
<223> Xaa equals stop translation
<400> 202
Met Val Glu Ser Asn Leu Pro Gly Pro Ala Xaa
<210> 203
<211> 24
<212> PRT
<213> Homo sapiens
<400> 203
Thr Phe Lys Ser Leu Trp Lys His Trp Thr Leu Ala Gly Pro Gly Asn
                                    10
Ile Gly Lys Asn Trp Ile Gly Arg
             20
<210> 204
<211> 48
<212> PRT
<213> Homo sapiens
<400> 204
His Glu Gly Thr Trp Arg Trp Glu Ala Pro Thr Pro Leu Gln Ser Leu
                                     10
Gly Pro Thr Thr Pro Ser Leu Pro Ser Val Ala Asp Leu Cys Gln Asp
                                 25
Gly His Gly Gly Cys Ser Glu His Ala Asn Cys Ser Gln Val Gly Thr
                             40
         35
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<213> Homo sapiens

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<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids
Trp Gln Val Pro Ala Pro Val Ile Pro Gly Xaa Asp Pro Arg Val Arg
                  5
Gly Ala Arg Lys Arg Thr Leu Leu Gly Val Ala Gly Gly Trp Arg Arg
                                 25
Phe Glu Arg Leu Trp Ala Gly Ser Leu Ser
        35
<210> 207
<211> 41
<212> PRT
<213> Homo sapiens
<400> 207
Ser Arg Ser Leu Ala Leu Ala Ala Pro Ser Ser Asn Gly Ser Pro
                                     10
Trp Arg Leu Leu Gly Ala Leu Cys Leu Gln Arg Pro Pro Val Val Ser
                                 25
Lys Pro Leu Thr Pro Leu Gln Glu Glu
         35
<210> 208
<211> 41
<212> PRT
<213> Homo sapiens
<400> 208
Met Glu Glu Glu Ala Tyr Ser Lys Gly Phe Gln Glu Gly Leu Lys Lys
                                                         15
                  5
Thr Lys Glu Leu Gln Asp Leu Lys Glu Glu Glu Glu Glu Gln Lys Ser
Glu Ser Pro Glu Glu Pro Glu Glu Val
        35
<210> 209
<211> 37
<212> PRT
<213> Homo sapiens
<400> 209
Glu Glu Thr Glu Glu Glu Lys Gly Pro Arg Ser Ser Lys Leu Glu
                                     10
```

Glu Leu Val His Phe Leu Gln Val Met Tyr Pro Lys Leu Cys Gln His

20 25 . 30

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Trp Gln Val Ile Trp
```

```
<210> 210
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<211> 41

<212> PRT

<213> Homo sapiens

<400> 210

Ile Leu Tyr Leu Val Trp Ala Phe Ile Pro Glu Ser Trp Leu Asn Ser 1 5 10 15

Leu Gly Leu Thr Tyr Trp Pro Gln Lys Tyr Trp Ala Val Ala Leu Pro 20 25 30

Val Tyr Leu Leu Ile Ala Ile Val Ile 35 40

<210> 211

<211> 20

<212> PRT

<213> Homo sapiens

<400> 211

Tyr Gly Phe Val Leu Phe Leu Ser Ser Gln Phe Gly Phe Ile Leu Tyr 1 5 10 15

Leu Val Trp Ala

<210> 212

<211> 12

<212> PRT

<213> Homo sapiens

<400> 212

Thr Ser Pro Leu Asp Ser Ile His Thr Ile Thr Asp

<210> 213

<211> 20

<212> PRT

<213> Homo sapiens

<400> 213

Pro Leu Pro Glu Arg Ala Ile Tyr Gly Phe Val Leu Phe Leu Ser Ser 1 5 10 15

Gln Phe Gly Phe

20

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<210> .214
<211> 51
<212> PRT
<213> Homo sapiens
<400> 214
Pro Thr Arg Gly Gly Ser Leu Cys Ala Cys Pro Gly Trp Gly Leu Pro
Ser Arg Leu Gly Leu Ser Leu Arg Phe Ser Ser Pro Leu Arg Leu
Pro Ser Arg Arg Leu Arg Glu Asn Ser Ala Leu Arg Leu Ser Lys Ala
                             40
Pro Gly Lys
     50
<210> 215
<211> 10
<212> PRT
<213> Homo sapiens
<400> 215
Pro Pro Gly Cys Arg Asn Ser Ala Arg Glu
                  5
<210> 216
<211> 10
<212> PRT
<213> Homo sapiens
<400> 216
Pro Pro Gly Cys Arg Asn Ser Ala Arg Glu
                  5
  1
<210> 217
<211> 44
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids
Gly Ala Ser Ser Arg Pro Arg Leu Glu Leu Gly Arg Leu Met Gly Pro
Lys Gly Val Ala Val Asp Arg Asn Xaa His Ile Ile Val Val Asp Asn
                                  25
Lys Ser Cys Cys Val Phe Thr Phe Gln Pro Asn Gly
```

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<210> 218
<211> 44
<212> PRT
<213> Homo sapiens
<400> 218
Lys Leu Val Gly Arg Phe Gly Gly Arg Gly Ala Thr Asp Arg His Phe
                  5
  1
                                     10
Ala Gly Pro His Phe Val Ala Val Asn Asn Lys Asn Glu Ile Val Val
                                 25
Thr Asp Phe His Asn His Ser Val Lys Val Tyr Ser
                             40
<210> 219
<211> 42
<212> PRT
<213> Homo sapiens
<400> 219
Ala Asp Gly Glu Phe Leu Phe Lys Phe Gly Ser His Gly Glu Gly Asn
Gly Gln Phe Asn Ala Pro Thr Gly Val Ala Val Asp Ser Asn Gly Asn
                                 25
Ile Ile Val Ala Asp Trp Gly Asn Ser Arg
        35
<210> 220
<211> 38
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 220
Ile Xaa Gly Ile Arg Xaa Leu Trp Leu Leu Pro Val Leu Tyr Gln His
                                     10
Ile Cys Arg Thr Thr Val Trp Ser Thr Gly Pro Gly Thr Asp Leu Gly
             20
Trp Pro Cys Gly Gly Gly
         35
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<210> 221
<211> 16
<212> PRT
<213> Homo sapiens
<400> 221
Met Glu Trp Glu Gly Gly Ala Ile Arg His Pro Ser Thr Glu Leu Gly
<210> 222
<211> 36
<212> PRT
<213> Homo sapiens
<400> 222
Arg Pro Thr Arg Pro Pro Asp Gly Cys His Pro Ser Cys Cys Arg Met
Glu Ala Ala Met Glu Trp Glu Gly Gly Ala Ile Arg His Pro Ser Thr
                                 25
Glu Leu Gly Ile
  35
<210> 223
<211> 35
<212> PRT
<213> Homo sapiens
<400> 223
Glu Cys Gln Glu Tyr Glu Ile Leu Glu His Cys Trp Trp Glu Cys Lys
Leu Val Gln Pro Phe Trp Lys Ser Ser Cys Arg Ile Pro Ala Ala Arg
                                 25
Gly Ile His
<210> 224
<211> 15
<212> PRT
<213> Homo sapiens
<400> 224
His Cys Trp Trp Glu Cys Lys Leu Val Gln Pro Phe Trp Lys Ser
                                                         15
                                    10
                 5
```

<210> 225

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<211> 6
<212> PRT
<213> Homo sapiens
<400> 225
Phe Thr Phe Pro Pro Thr
<210> 226
<211> 127
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 226
His His Leu Arg Val Gly Ser Pro Trp Ser His Pro Glu Thr Gly-
                                     10
                                                          15
                  5
Thr Ala Val His Gly Ala His Pro Gln Gly Glu Ala Ala Ser Asp Arg
             20
His Arg Gly Cys Phe Tyr Arg Arg Gln Leu Met His Gln Leu Pro
                             40
Ile Tyr Asp Gln Asp Pro Ser Arg Cys Arg Gly Leu Leu Glu Asn Glu
     50
Leu Lys Leu Met Glu Glu Phe Val Lys Gln Tyr Lys Ser Glu Ala Leu
Gly Val Gly Glu Val Ala Leu Pro Gly Xaa Gly Trp Leu Ala Lys Glu
                                     90
```

Glu Gly Lys Gln Gln Glu Lys Pro Glu Gly Ala Glu Thr Xaa Ala Xaa 100 105 110

Thr Thr Asn Gly Xaa Xaa Ser Asp Pro Ser Lys Glu Glu Ala Cys 115 120 125

<210> 227

<211> 7

<212> PRT

<213> Homo sapiens

<400> 227

Thr Tyr Glu Trp Ala Pro Pro
1 5

<210> 228

<211> 7

<212> PRT

<213> Homo sapiens

<400> 228

Pro Lys Glu Lys Gln Pro Val

<210> 229

<211> 34

<212> PRT

<213> Homo sapiens

<400> 229

Pro Arg Pro Ala Asn Leu Ala Ile Gln Pro Pro Leu Ser Pro Leu Arg 1 5 10 15

Ala Leu Ala Pro Leu Pro Glu Lys Pro Gly Ala Val Pro Pro Pro Gln 20 25 30

Lys Arg

<210> 230

<211> 163

<212> PRT

<213> Homo sapiens

<400> 230

Ala His Ala Val Trp Arg Pro Gly Val Leu Pro Gly Leu Val Glu Leu

1 5 10 15

Arg Val Cys His Leu Leu Leu Ala Glu Leu Glu His Pro Cys Ala Gln

Val Val His Gln Val Gly Gly Val Cys Val Cys Val Met Trp Asn Met

Ala Val Asn Leu Asn Arg Phe Pro Cys Pro Leu Leu Cys Arg His Phe 50 55 60

Tyr Lys Pro Met Leu Arg Arg Gly Ser Ser Lys Trp Met Ala Arg Thr 65 70 75 80

Gly Val Phe Leu Ala Ser Ala Phe Phe His Glu Tyr Leu Val Ser Val 85 90 95

Pro Leu Arg Met Phe Arg Leu Trp Ala Phe Thr Gly Met Met Ala Gln 100 105 110

Ile Pro Leu Ala Trp Phe Val Gly Arg Phe Phe Gln Gly Asn Tyr Gly 115 120 125

Asn Ala Ala Val Trp Leu Ser Leu Ile Ile Gly Gln Pro Ile Ala Val 130 135 140

Leu Met Tyr Val His Asp Tyr Tyr Val Leu Asn Tyr Glu Ala Pro Ala 145 150 155 160

Ala Glu Ala

<210> 231

<211> 8

<212> PRT

<213> Homo sapiens

<400> 231

Tyr Phe Leu Phe Ala Pro Thr Leu

<210> 232

<211> 16

<212> PRT

<213> Homo sapiens

<400> 232

Asn Leu Asn Arg Phe Pro Cys Pro Leu Leu Cys Arg His Phe Tyr Lys
1 5 10 15

<210> 233

<211> 16

<212> PRT

<213> Homo sapiens

<400> 233

Gln Gly Asn Tyr Gly Asn Ala Ala Val Trp Leu Ser Leu Ile Ile Gly
1 5 10 15

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<210> 234
<211> 17
<212> PRT
<213> Homo sapiens
<400> 234
Leu Tyr Tyr Phe Leu Phe Ala Pro Thr Leu Cys Tyr Glu Leu Asn Phe
                                      10
                  5
Pro
<210> 235
<211> 26
<212> PRT
<213> Homo sapiens
<400> 235
Glu Met Leu Phe Phe Thr Gln Leu Gln Val Gly Leu Ile Gln Gln Trp
                                     10
Met Val Pro Thr Ile Gln Asn Ser Met Lys
             20
<210> 236
<211> 18
<212> PRT
<213> Homo sapiens
<400> 236
Val Thr Tyr Phe Trp Gln Asn Trp Asn Ile Pro Val His Lys Trp Cys
                                                          15
Ile Arg
<210> 237
 <211> 60
 <212> PRT
 <213> Homo sapiens
 <400> 237
 Pro Phe Lys Asp Met Asp Tyr Ser Arg Ile Ile Glu Arg Leu Leu Lys
                                      10
 Leu Ala Val Pro Asn His Leu Ile Trp Leu Ile Phe Phe Tyr Trp Leu
              20
 Phe His Ser Cys Leu Asn Ala Val Ala Glu Leu Met Gln Phe Gly Asp
                              40
          35
 Arg Glu Phe Tyr Arg Asp Trp Trp Asn Ser Glu Ser
```

10

60

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<210> 238
<211> 48
<212> PRT
<213> Homo sapiens
<400> 238
Arg His Phe Tyr Lys Pro Met Leu Arg Arg Gly Ser Ser Lys Trp Met
```

Ala Arg Thr Gly Val Phe Leu Ala Ser Ala Phe Phe His Glu Tyr Leu 25

55

Val Ser Val Pro Leu Arg Met Phe Arg Leu Trp Ala Phe Thr Gly Met 40

<210> 239 <211> 47 <212> PRT <213> Homo sapiens <400> 239

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Met Ala Gln Ile Pro Leu Ala Trp Phe Val Gly Arg Phe Phe Gln Gly 10

Asn Tyr Gly Asn Ala Ala Val Trp Leu Ser Leu Ile Ile Gly Gln Pro 25

Ile Ala Val Leu Met Tyr Val His Asp Tyr Tyr Val Leu Asn Tyr 40 35

<210> 240 <211> 23 <212> PRT <213> Homo sapiens

<220> <221> SITE <222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE

<222> (16) <223> Xaa equals any of the naturally occurring L-amino acids

Ser Gly Xaa Trp Gln Gly Leu Asp Glu Val Val Arg Leu Leu Asn Xaa 10

Ser Asp Phe Ala Phe Thr Asp

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20

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<210> 241
<211> 61
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 241
Gly Ser Leu Ala Lys Arg Ser Asn Phe Arg Ala Ile Ser Lys Lys Leu
Asn Leu Ile Pro Arg Val Asp Gly Glu Tyr Asp Leu Lys Val Pro Arg
Asp Met Ala Tyr Val Phe Xaa Gly Ala Tyr Val Pro Leu Ser Cys Arg
         35
                             40
Ile Ile Glu Gln Val Leu Glu Arg Arg Xaa Ala Gly Pro
                         55
<210> 242
<211> 194
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids --
<400> 242
Glu Val Ile Asn Thr Leu Ala Asp His Arg His Arg Gly Thr Asp Phe
Gly Gly Ser Pro Trp Leu Leu Ile Ile Thr Val Phe Leu Arg Ser Tyr
                                 25
Lys Phe Ala Ile Ser Leu Cys Thr Ser Tyr Leu Cys Val Ser Phe Leu
         35
                             40
Lys Thr Ile Phe Pro Ser Gln Asn Gly His Asp Gly Ser Thr Asp Val
Gln Gln Arg Ala Arg Arg Ser Asn Xaa Arg Arg Gln Glu Gly Ile Lys
                     70
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Ile Val Leu Glu Asp Ile Phe Thr Leu Trp Arg Gln Val Glu Thr Lys 85 Val Arg Ala Lys Ile Arg Lys Met Lys Val Thr Thr Lys Val Asn Arg 100 His Asp Lys Ile Asn Gly Lys Arg Lys Thr Ala Lys Glu His Leu Arg 120 115 Lys Leu Ser Met Lys Glu Arg Glu His Gly Glu Lys Glu Arg Gln Val Ser Glu Ala Glu Glu Asn Gly Lys Leu Asp Met Lys Glu Ile His Thr 160 155

Tyr Met Glu Met Phe Gln Arg Ala Gln Val Cys Gly Gly Gln Arg 170 165

Thr Thr Thr Asp Ala Lys Ser Pro Leu Leu Gln Glu Ser Leu Phe Ala 185

Thr Gly

<210> 243 <211> 143 <212> PRT · <213> Homo sapiens <220>

<221> SITE <222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 243 Ile Cys Val Lys Thr Phe Pro Pro Leu Ala Leu Gln Val Arg Met Ala 5 1

Ala Xaa Glu His Arg His Ser Ser Gly Leu Pro Xaa Trp Pro Tyr Leu 20

Thr Ala Glu Thr Leu Lys Asn Arg Met Gly His Gln Pro Pro Pro

35 40 45 . ·

Thr Gln Gln His Ser Ile Xaa Asp Asn Ser Leu Ser Leu Lys Thr Pro 50 55 60

Ala Glu Cys Leu Leu Tyr Pro Leu Pro Pro Ser Ala Asp Asp Asn Leu 65 70 75 80

Lys Thr Pro Xaa Glu Cys Leu Leu Thr Pro Leu Pro Pro Ser Ala Pro 85 90 95

Pro Ser Ala Asp Asp Asn Leu Lys Thr Pro Pro Glu Cys Val Cys Ser 100 105 110

Leu Pro Phe His Pro Gln Leu His Pro Gln Arg Met Ile Ile Ser Arg 115 120 125

His Leu Pro Ser Val Ser Ala His Ser Pro Ser Thr Leu Ser Gly 130 135 140

<210> 244

<211> 20

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 244

Arg Ala Arg Arg Ser Asn Xaa Arg Arg Gln Glu Gly Ile Lys Ile Val

Leu Glu Asp Ile

<210> 245

<211> 16

<212> PRT

<213> Homo sapiens

<400> 245

Leu Ser Leu Lys Thr Pro Ala Glu Cys Leu Leu Tyr Pro Leu Pro Pro 1 5 10 15

<210> 246

<211> 27

<212> PRT

<213> Homo sapiens

<400> 246

Phe Leu Leu Ile Glu Ser Tyr Gln Lys Leu Arg Asn Lys Thr Asn Leu

1 5 10 15

Ser Leu His Val Phe Leu Phe His Thr Glu Val 20 25

<210> 247

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 247

Tyr Ala Leu Arg Thr Gly Ala Phe Glu Pro Ala Glu Ala Ser Val Asn
1 5 10 15

Pro Gln Asp Leu Gln Gly Ser Leu Gln Glu Leu Lys Glu Arg Ala Leu 20 25 30

Ser Arg Tyr Asn Leu Val Arg Gly Gln Gly Pro Glu Arg Leu Val Ser 35 40 45

Gly Ser Asp Asp Phe Thr Leu Phe Leu Trp Ser Pro Ala Glu Xaa Lys 50 55 60

Lys Pro Leu Thr Arg Met Thr Gly His Gln Ala Leu Ile Asn Gln Val 65 70 . 75 80

Leu Phe Ser Pro Asp Ser Arg Ile Val Ala Ser Ala Ser Phe Asp Lys 85 90 95

Ser Ile Lys Leu Trp Asp Gly Arg Thr Gly Lys Tyr Leu Ala Ser Leu 100 105 110

Arg Gly His Val Ala Ala Val Tyr Gln Ile Ala Trp Ser Ala Asp Ser 115 120 125

Arg Leu Leu Val Ser Gly Ser Ser Xaa Gln His Thr Glu Gly Val Gly 130 135 140

Cys Glu Gly Pro Glu Ala Gly His Gly Pro Ala Arg Pro Arg Gly 145 150 155

<210> 248

<211> 21

<212> PRT

<213> Homo sapiens

<400> 248

Leu Lys Glu Arg Ala Leu Ser Arg Tyr Asn Leu Val Arg Gly Gln Gly
1 5 10 15

Pro Glu Arg Leu Val 20

<210> 249

<211> 137

<212> PRT

<213> Homo sapiens

<400> 249

Met Pro Thr Pro Ser Met Arg Ala Asn Arg Met Pro Pro Ile Ile Ala 1 5 10 15

Glu Pro Thr Met Ala Ser Gly Pro Leu Arg Ala Ala Ser Thr Ala Pro 20 25 30

Val Asn Ala Pro Leu Val Ile Glu Phe Gln Gly Ser Ser Leu Pro Arg 35 40 45

Ser Arg Thr Arg Pro Gln Ser Met Val Glu Asn Arg Pro Pro His Thr 50 60

Ala Lys Leu Pro Pro Ile Trp Gly Ala Arg Ile Leu Thr Ala Leu Ala 65 70 75 80

Leu Pro Leu Asn Arg Cys Arg Ile Pro Thr Gly Ala Leu Arg Lys Pro 85 90 95

Leu Met Ala Trp Lys Thr Pro Pro Pro Met Thr Pro Ile Val Lys Ala 100 105 110

Pro Pro Gln Ser Ser Thr Ile Arg His Gly Gln Gly Ser Arg Ala Tyr 115 120 125

Ser Gly Arg Val Gly Gly Arg Val Gly 130 135

<210> 250

<211> 25

<212> PRT

<213> Homo sapiens

<400> 250

Gly Ala Arg Ile Leu Thr Ala Leu Ala Leu Pro Leu Asn Arg Cys Arg 1 5 10 15

Ile Pro Thr Gly Ala Leu Arg Lys Pro . 20 25

<210> 251

<211> 38

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<212> PRT
<213> Homo sapiens
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<400> 251

Pro Thr Arg Pro Pro Thr Arg Pro Glu Tyr Ala Arg Glu Pro Cys Pro 1 5 10 15

Trp Arg Ile Val Asp Asp Cys Gly Gly Ala Phe Thr Met Gly Val Ile 20 25 30

Gly Gly Gly Val Phe Gln 35

<210> 252

<211> 39

<212> PRT

<213> Homo sapiens

<400> 252

Ala Ile Lys Gly Phe Arg Asn Ala Pro Val Gly Ile Arg His Arg Leu 1 5 10 15

Arg Gly Ser Ala Asn Ala Val Arg Ile Arg Ala Pro Gln Ile Gly Gly
20 25 30

Ser Phe Ala Val Trp Gly Gly 35

<210> 253

<211> 40

<212> PRT

<213> Homo sapiens

<400> 253

Leu Phe Ser Thr Ile Asp Cys Gly Leu Val Arg Leu Arg Gly Lys Glu
1 5 10 15

Asp Pro Trp Asn Ser Ile Thr Ser Gly Ala Leu Thr Gly Ala Val Leu
20 25 30 -

Ala Ala Arg Ser Gly Pro Leu Ala 35 40

<210> 254

<211> 38

<212> PRT

<213> Homo sapiens

<400> 254

Ile Arg His Glu Arg Lys Ser Ala Arg Ala Cys Cys Pro Leu Thr Gly
1 5 10 15

Ala Gln Arg Arg Gly Gln Ala Leu Pro Thr Pro Arg Ala Gly Pro Gly 20 25 30

His Ser Pro Ala Pro Val 35

<210> 255

<211> 38

<212> PRT

<213> Homo sapiens

<400> 255°

Ala Pro Ser Ala Pro Gln Glu Asp Gly Gly Ser Pro Pro Ala Pro Gln
1 5 10 15

Gly Gln Pro Asp Pro Gly Pro Gly Ala Gly Gln Pro Ala Gln Leu Gly 20 25 30

Pro Leu Leu Ala Phe Leu . 35

<210> 256

<211> 44

<212> PRT

<213> Homo sapiens

<400> 256

Pro Leu Leu His Gln Asp Cys Lys Glu Ser Pro His Leu Gly Ser Ser 1 5 10 15

Gly Ser Pro Val Gln Ala Leu Asp Leu Ser Ser Ile Gln Thr Arg Thr

Ala Val Ser Cys Val Asp Gly Val Arg Leu Trp Ala 35 40

<210> 257

<211> 15

<212> PRT

<213> Homo sapiens

<400> 257

His Arg Leu Gln Val Phe Ser Phe Pro Ile Leu Gly Ser His Asn 1 5 10 15

<210> 258

<211> 52

<212> PRT

<213> Homo sapiens

<400> 258

Gly Lys Val Glu Ile Glu Val Phe Ile Phe Pro Tyr Glu Tyr Pro Val

Val Pro Thr Pro Leu Ile Lys Asn Thr Ile Leu Tyr Pro Leu Ser Leu 20 25 30

Phe Cys Thr Phe Ile Lys Asn Gln Phe Ser Ile Tyr Leu Trp Ile Lys 45 40 35 Phe Phe Ile Phe 50 <210> 259 <211> 14 <212> PRT <213> Homo sapiens <400> 259 Arg Ala Thr Thr His Val Ser Arg Glu Phe Phe Gly His Thr 10 5 <210> 260 <211> 41 <212> PRT <213> Homo sapiens <400> 260 Thr Leu Phe Ser Met Phe Ser Gly Pro Leu Gly Arg Gln Thr Gln Leu 10 Asp Phe Arg Ala Asp Ile Gly Glu Glu Asn Met Ala Leu Ser Val Leu 25 20 Ser Pro Asp Lys Cys Tyr Leu Tyr Thr 35 <210> 261 <211> 46 <212> PRT <213> Homo sapiens <400> 261 His Pro Asn Leu Lys Arg Lys Cys Ile Ser Leu Gly Phe Lys His Cys Asn Arg Tyr Lys Ala Lys Ile Lys Thr Cys Cys Lys Val Gln Lys Lys 25 40 <210> 262 <211> 13 <212> PRT

<213> Homo sapiens

<400> 262

His Ser Gly Val Gln Thr Ile Ala Phe Gly Leu Glu Cys

1 5 10

```
<210> 263
<211> 25
<212> PRT
<213> Homo sapiens
<400> 263
Lys Val Gln Asp Arg Asp Gly Lys Glu Arg Arg Lys Gln Glu Glu Val
                                    10
Lys Leu Gly Arg Trp Cys Gln Trp His
             20
<210> 264
<211> 10
<212> PRT
<213> Homo sapiens
<400> 264
Ala Cys Gly Ala Pro Glu Glu Ala Gly Gly
            5
<210> 265
<211> 35
<212> PRT
<213> Homo sapiens
<400> 265
Leu Phe Ser Ser Phe Leu Gly Asp Thr Thr Val His Lys Val Leu Ser
                 5 .
                                    10
Arg Ala Thr Leu His Leu His Pro Ala Pro Tyr Leu Thr Gly Val Asp
                                 25
Ser Tyr Ser
<210> 266
<211> 39
<212> PRT
<213> Homo sapiens
<400> 266
Asp Phe Ser Ser Tyr Ser His Pro Ser Leu Gly Thr Gln Leu Ser Ile
                 5
Arg Cys Tyr Pro Glu Pro His Cys Ile Cys Thr Gln His His Thr Ser
                                 25
            20
Gln Glu Ser Thr Pro Thr Leu
         35
<210> 267
<211> 38
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<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 267
Ala Pro Gln Lys Phe Pro Xaa Gly Phe Phe Phe Phe Leu Phe Ser
Arg Arg Lys Lys Gln Cys Ser Lys Val Val Gln Asn Thr Gly Ala Gly
                                                     30
Ala Ile Gln Thr Gln Val
         35
<210> 268
<211> 38
<212> PRT
<213> Homo sapiens
<400> 268
Gln Leu Leu Thr Ser Pro Thr Phe Ser Thr Val Leu Ser Asn Tyr Thr
                                     10
                  5
Cys Gln Ala Pro Ser Gln Trp Thr Asp Trp Gln Ala Leu Leu Pro Thr
                                  25
             20
Gly Ile Gln Thr Glu His
         35
<210> 269
<211> 36
<212> PRT
<213> Homo sapiens
<400> 269
His Gln Gly Trp Asp Lys Gln Lys Gln Cys Lys Arg Lys Cys Glu His
                                      10
Glu His Ala Pro Leu His His Asn Leu Trp Lys Gln Ser Gly Lys Thr
                                                      30
                                  25
Arg Leu Gly Asp
     . 35
```

<210> 270 <211> 27 <212> PRT <213> Homo sapiens <400> 270 Lys His Val Ile Phe Phe Met Phe Ile Ser Asn Leu Phe Leu Ile Leu 10

. 15

1

5

Cys Phe Leu Phe Arg Pro Thr Lys Thr Thr Val 20 <210> 271 <211> 11 <212> PRT <213> Homo sapiens <400> 271 Asp Lys Leu Leu Ser Phe His Leu Val Ser Ile 1 5 <210> 272 <211> 14 <212> PRT <213> Homo sapiens <400> 272 Lys Trp Lys Gly Asp Leu His Cys Ile Leu Gly Leu Leu Ala 1 <210> 273 <211> 10 <212> PRT <213> Homo sapiens <400> 273 Leu Ala Pro Ser Ser Val Gly Ser Ala Ser 5 1 <210> 274 <211> 39 <212> PRT <213> Homo sapiens <400> 274 Arg Glu Ala Thr Lys Asn Pro Thr His His Arg Ser Thr Pro His Ala 5 10 Ala Gly Ser Gln Leu Asn Val Pro Pro Gln Pro Cys Phe Pro Leu His . 25 His Gln Ile Lys Thr Ser Pro 35 <210> 275 <211> 38 <212> PRT <213> Homo sapiens <400> 275

Ser Gln Thr Ile Phe Lys Gln Ser Arg His Arg Cys Asp Ser Arg Gln 1 5 10 15

Glu Ser Thr Trp Leu Cys Ser His Glu Lys Asp Ala Thr Lys Met Met
20 25 30

His Leu Asn Asp Asn Ser 35

<210> 276

<211> 48

<212> PRT

<213> Homo sapiens

<400> 276

Val Thr Gly Ser Pro Ile Leu Gln Leu Ala Leu Leu Gln Leu Pro Ala 1 5 10 15

Trp Pro Leu Arg Gly Arg Leu Arg Gly Lys Arg His Cys Thr Gly Leu 20 25 30

Asn Leu Ala Ile Ser Gly Asn Gly Gly Glu Trp Gly Gly Arg Gly Glu 35 40 45

<210> 277

<211> 13

<212> PRT

<213> Homo sapiens

<400> 277

Ile Arg His Glu Asp Glu Val Lys Leu Leu Glu Trp Ser

<210> 278

<211> 35

<212> PRT

<213> Homo sapiens

<400> 278

Ser Leu His Ser Ser Ala Val Ala Ala Thr Tyr Lys Tyr Val Asn Met

1 5 10 15

Gln Asp Pro Glu Met Asp Met Lys Ser Val Thr Asp Arg Ala Ala Arg
20 25 30

Thr Leu Leu

35

<210> 279

<211> 60

<212> PRT

<213> Homo sapiens

<400> 279

Trp Thr Glu Leu Phe Arg Gly Leu Gly Met Thr Leu Ser Tyr Leu Phe 1 5 10 15

Arg Glu Pro Ala Thr Ile Asn Tyr Pro Phe Glu Lys Gly Pro Leu Ser 20 25 30

Pro Arg Phe Arg Gly Glu His Ala Leu Arg Arg Tyr Pro Ser Gly Glu 35 40 45

Glu Arg Cys Ile Ala Cys Lys Leu Cys Glu Ala Ile 50 55 60

<210> 280

<211> 57

<212> PRT

<213> Homo sapiens

<400> 280

Cys Pro Ala Gln Ala Ile Ile Glu Ala Glu Pro Arg Ala Asp Gly Ser 1 5 10 15

Arg Arg Thr Thr Arg Tyr Asp Ile Asp Met Thr Lys Cys Ile Tyr Cys
20 25 30

Gly Phe Cys Gln Glu Ala Cys Pro Val Asp Ala Ile Val Glu Gly Pro 35 40 45

Asn Phe Glu Phe Ser Thr Glu Thr His 50 55

<210> 281

<211> 19

<212> PRT

<213> Homo sapiens

<400> 281

Gly Asp Lys Trp Glu Ala Glu Ile Ala Ala Asn Ile Gln Ala Asp Tyr
1 5 10 15

Leu Tyr Arg

<210> 282

<211> 48

<212> PRT .

<213> Homo sapiens

<400> 282

Ser Ala Ala Asp Pro Ala Thr Gln Pro Gly Asp Ser Arg Ala Leu Pro 1 5 10 15

Glu Pro Arg Gly Val Pro Ala Val His Pro Ala Gly Ser Gly Ser Glu

20 25 . 30 .

Trp Glu Arg Pro Pro Pro Ala Ala Pro Ser Pro Glu His Arg Asp Lys 35 40 45

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<210> 283
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<211> 24

<212> PRT

<213> Homo sapiens

<400> 283

Asp Ser Arg Ala Leu Pro Glu Pro Arg Gly Val Pro Ala Val His Pro 1 5 10 15

Ala Gly Ser Gly Ser Glu Trp Glu 20

<210> 284

<211> 7

<212> PRT

<213> Homo sapiens

<400> 284

Glu Phe Gly Thr Ser Trp Val

<210> 285

<211> 78

<212> PRT

<213> Homo sapiens

<400> 285

Thr Leu His Pro Pro Gln Glu Pro Gln Arg Pro Glu Ala Pro Asp Ala 1 5 10 15

Gly Asp Pro Ala Pro Leu Pro Ser Thr Ser Ser Val Gly Ser Ser Ser 20 25 30

Gly Gly Ala Cys Gly Val Pro Cys Ala His Trp Arg Val Cys Gly Leu  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Ile His Leu Val Ala Leu Arg Gly Gly Ile Arg Ala Pro Val Ser Pro 50 55 60

Pro Phe Met Phe Asn Leu His His Asn Leu Leu Asn Leu Arg 65 70 75

<210> 286

<211> 21

<212> PRT

<213> Homo sapiens

```
<400> 286
Glu Pro Gln Arg Pro Glu Ala Pro Asp Ala Gly Asp Pro Ala Pro Leu
Pro Ser Thr Ser Ser
             20
<210> 287
<211> 15
<212> PRT
<213> Homo sapiens
<400> 287
Arg Val Cys Gly Leu Ile His Leu Val Ala Leu Arg Gly Gly Ile
                                     10
<210> 288
<211> 79
<212> PRT
<213> Homo sapiens
<400> 288
Gln Gly Tyr Ser Thr Lys Pro Arg Leu Met Val Pro Leu Lys Met Asp
                 5
                                     10
Ser Ile Thr Val His Ile Arg Ser Thr Asn Gly Pro Ile Asp Val Tyr
Leu Cys Glu Val Glu Gln Gly Gln Thr Ser Asn Lys Arg Ser Glu Gly
                             40
Val Gly Thr Ser Ser Ser Glu Ser Thr His Pro Glu Gly Pro Glu Glu
    50
Glu Glu Asn Pro Gln Gln Ser Glu Glu Leu Leu Glu Val Ser Asn
                     70
<210> 289
<211> 30
<212> PRT
<213> Homo sapiens
Asp Ser Ile Thr Val His Ile Arg Ser Thr Asn Gly Pro Ile Asp Val
```

```
Tyr Leu Cys Glu Val Glu Gln Gly Gln Thr Ser Asn Lys Arg
20 25 30
```

<210> 290

<211> 25

<212> PRT

<213> Homo sapiens

```
<400> 290
Leu Met Val Pro Leu Lys Met Asp Ser Ile Thr Val His Ile Arg Ser
                                     10
Thr Asn Gly Pro Ile Asp Val Tyr Leu
             20
<210> 291
<211> 26
<212> PRT
<213> Homo sapiens
<400> 291
Gln Gly Gln Thr Ser Asn Lys Arg Ser Glu Gly Val Gly Thr Ser Ser
                                     10
Ser Glu Ser Thr His Pro Glu Gly Pro Glu
             20
<210> 292
<211> 19
<212> PRT
<213> Homo sapiens
<400> 292
Arg Pro Thr Arg Pro Ser Ile Leu Gly Leu Tyr Val Asp Leu Tyr Val
                                     10
                 5
Phe Cys Ile
<210> 293
<211> 29
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 293
Cys Gly Ala Cys Thr Xaa Leu Ser Leu Ser Asp Ser Arg Arg Cys Gly
                                     10
                 5
Cys Cys Lys Gly Ser Ser Leu Arg His Thr Ala Val Ala
             20
<210> 294
<211> 7
<212> PRT
<213> Homo sapiens
```

```
<400> 294
Gly Arg Pro Thr Arg Pro Ile
 1 5
<210> 295
<211> 64
<212> PRT
<213> Homo sapiens
<400> 295
Asp Pro Arg Val Arg Asp Leu Gln Gln Lys Asp Ile Gly Val Lys Pro
                                   .10
Glu Phe Ser Phe Asn Ile Pro Arg Ala Lys Arg Glu Leu Ala Gln Leu
                              25 30
Asn Lys Cys Thr Ser Pro Gln Gln Lys Leu Val Cys Leu Arg Lys Val
                           40
Val Gln Leu Ile Thr Gln Ser Pro Ser Gln Arg Val Asn Leu Glu Thr
                        55
<210> 296
<211> 21
<212> PRT
<213> Homo sapiens
<400> 296
Gln Gln Lys Asp Ile Gly Val Lys Pro Glu Phe Ser Phe Asn Ile Pro
                                   10
Arg Ala Lys Arg Glu
            20
<210> 297
<211> 25
<212> PRT
<213> Homo sapiens
<400> 297
Lys Cys Thr Ser Pro Gln Gln Lys Leu Val Cys Leu Arg Lys Val Val
Gln Leu Ile Thr Gln Ser Pro Ser Gln
            20
```

<210> 298 <211> 142 <212> PRT <213> Homo sapiens <220>
<221> SITE
<222> (66)
<223> Xaa e
<400> 298
Gln Lys Glu
1

Gly Tyr Glr

Val Val Thr
35

Val Leu Ser
50

Ser Xaa Leu
65

Leu Glu Arg

Asp Met Asp

<223> Xaa equals any of the naturally occurring L-amino acids

Gln Lys Glu Trp Lys Leu Phe Leu Arg Gly Arg Gln Asn Glu Lys Ser 1 5 10 15

Gly Tyr Gln Lys Leu Leu Glu Leu Ile Leu Leu Asp Gln Thr Val Arg 20 25 30

Val Val Thr Ala Gly Ser Ala Ile Leu Gln Lys Cys His Phe Tyr Glu 35 40 . 45

Val Leu Ser Glu Ile Lys Arg Leu Gly Asp His Leu Ala Glu Lys Thr 50 55 60

Ser Xaa Leu Pro Asn His Ser Glu Pro Asp His Asp Thr Asp Ala Gly 65 70 75 80

Leu Glu Arg Thr Asn Pro Glu Tyr Glu Asn Glu Val Glu Ala Ser Met
85 90 95

Asp Met Asp Leu Leu Glu Ser Ser Asn Ile Ser Glu Gly Glu Ile Glu 100 105 110

Arg Leu Ile Asn Leu Leu Glu Glu Val Phe His Leu Met Glu Thr Ala 115 120 125

Pro His Thr Met Ile Gln Gln Pro Val Lys Ser Phe Pro Thr 130 135 140

<210> 299

<211> 27

<212> PRT

<213> Homo sapiens

<400> 299

Leu Arg Gly Arg Gln Asn Glu Lys Ser Gly Tyr Gln Lys Leu Leu Glu1 5 10 15

Leu Ile Leu Leu Asp Gln Thr Val Arg Val Val 20 25

<210> 300

<211> 26

<212> PRT

<213> Homo sapiens

<400> 300

Ile Leu Gln Lys Cys His Phe Tyr Glu Val Leu Ser Glu Ile Lys Arg
1 5 10 15

Leu Gly Asp His Leu Ala Glu Lys Thr Ser 20 25

```
<210> 301
<211> 22
<212> PRT
<213> Homo sapiens
<400> 301
Asp Ala Gly Leu Glu Arg Thr Asn Pro Glu Tyr Glu Asn Glu Val Glu
 1
Ala Ser Met Asp Met Asp
             20
<210> 302
<211> 26
<212> PRT
<213> Homo sapiens
<400> 302
Asn Ile Ser Glu Gly Glu Ile Glu Arg Leu Ile Asn Leu Leu Glu Glu
                  5
 1
Val Phe His Leu Met Glu Thr Ala Pro His
             20
<210> 303
<211> 19
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
Arg Arg Thr Ser Gly Ser Pro Xaa Ala Ala Gly Ile Arg His Glu Gly
                                                          15 . . -
                                      10
Gly Phe Ile
<210> 304
<211> 149
<212> PRT
<213> Homo sapiens
<400> 304
Met Asn Arg His Asn Phe Pro Cys Ser Val His Gln Tyr Glu Ser Ser
                                      10
Gly Thr Val Asn Asn Asp Asp Ser Asp Leu Leu Asp Ser Gln Val Gln
                                  25
```

Tyr Ser Ala Glu Pro Gln Leu Tyr Gly Asn Ala Thr Ser Asp His Pro 35 40 45

Asn Asn Gln Asp Gln Ser Ser Ser Leu Pro Glu Glu Cys Val Pro Ser 50 55 60

Asp Glu Ser Thr Pro Pro Ser Ile Lys Lys Ile Ile His Val Leu Glu 65 70 75 80

Lys Val Gln Tyr Leu Glu Gln Glu Val Glu Glu Phe Val Gly Lys Lys 85 90 95

Thr Asp Lys Ala Tyr Trp Leu Leu Glu Glu Met Leu Thr Lys Glu Leu
100 105 110

Leu Glu Leu Asp Ser Val Glu Thr Gly Gly Gln Asp Ser Val Arg Gln
115 120 125

Ala Arg Lys Glu Ala Val Cys Lys Ile Gln Ala Ile Leu Glu Lys Lys 130 135 140

Lys Lys Lys Asn Ser 145

<210> 305

<211> 87

<212> PRT

<213> Homo sapiens

<400> 305

Gly Ala Arg Ala Thr Ala Pro Val Thr Val Arg Pro Thr Ala Ala Thr
1 5 10 15

Thr Gly Leu Gly Val Glu Met Cys Arg Tyr Thr His Leu His Pro Tyr
20 25 30

Ile Leu Phe Ala Leu Asn Leu Pro Ser Leu Pro Phe Pro Gly Gly Cys
35 40 45

Ala Gly Ala Arg Arg Pro Pro Gly Trp Glu Lys Ala Glu Glu-50 55 60

Ala Met Ala Thr Ile Pro Arg Glu Ala Pro Gly Gln Ser Leu Val Glu 65 70 75 80

Pro Glu Glu Ala Thr Arg Val 85

<210> 306

<211> 25

<212> PRT

<213> Homo sapiens

<400> 306

Pro Val Thr Val Arg Pro Thr Ala Ala Thr Thr Gly Leu Gly Val Glu
1 5 10 15

```
Met Cys Arg Tyr Thr His Leu His Pro
20
<210> 307
<211> 25
<212> PRT
<213> Homo sapiens
<400> 307
Pro Tyr Ile Leu Phe Ala Leu Asn Leu Pro Ser Leu Pro Phe Pro Gly
                                    10
Gly Cys Ala Gly Ala Ala Arg Arg Arg
            20
<210> 308
<211> 20
<212> PRT
<213> Homo sapiens
<400> 308
Lys Ala Glu Glu Ala Met Ala Thr Ile Pro Arg Glu Ala Pro Gly Gln
                                   10
                 5
1
Ser Leu Val Glu
    20
<210> 309
<211> 26
<212> PRT
<213> Homo sapiens
<400> 309
Met Asn Arg His Asn Phe Pro Cys Ser Val His Gln Tyr Glu Ser Ser
                  5
Gly Thr Val Asn Asn Asp Asp Ser Asp Leu
                                25
             20
<210> 310
<211> 24
<212> PRT
<213> Homo sapiens
<400> 310
Asp Ser Gln Val Gln Tyr Ser Ala Glu Pro Gln Leu Tyr Gly Asn Ala
```

<210> 311

Thr Ser Asp His Pro Asn Asn Gln

. 20

```
<211> 25
<212> PRT
<213> Homo sapiens
<400> 311
His Pro Asn Asn Gln Asp Gln Ser Ser Leu Pro Glu Glu Cys Val
                   10
     5
Pro Ser Asp Glu Ser Thr Pro Pro Ser
           20
<210> 312
<211> 24
<212> PRT
<213> Homo sapiens
<400> 312
Glu Val Glu Glu Phe Val Gly Lys Lys Thr Asp Lys Ala Tyr Trp Leu
 1 5 10
Leu Glu Glu Met Leu Thr Lys Glu
          20
<210> 313
<211> 24
<212> PRT
<213> Homo sapiens
<400> 313
Leu Glu Leu Asp Ser Val Glu Thr Gly Gly Gln Asp Ser Val Arg Gln
 1 5 10
Ala Arg Lys Glu Ala Val Cys Lys
          20
<210> 314
<211> 25
<212> PRT
<213> Homo sapiens
<400> 314
Ile Arg His Glu Tyr Pro Val Leu Ile Gln Phe Ser Val Ser Tyr Arg
              5
                     10
Lys Ser Phe Ile Phe Cys Leu Pro Glu
          20
<210> 315
<211> 43
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
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130 <222> (9) <223> Xaa equals any of the naturally occurring L-amino acids Ala Asp Val Glu Leu Val Asp Pro Xaa Gly Cys Arg Asn Ser Ala Arg 10 Ala Pro Ala Arg Lys Lys Glu Trp His Ser Trp Ala Trp Pro Arg Ile 25 Arg Val Ile Arg Ala Arg Glu Ser Leu Gly Ser <210> 316 <211> 31 <212> PRT <213> Homo sapiens <400> 316 Glu Phe Gly Thr Ser Arg Gly Pro Val Pro Leu Ser Ser Thr Ser Pro 10 Met Pro Ser Arg Leu Val Ile Arg Ala His Ser Leu Leu Phe Ala 20

<210> 317 <211> 30 <212> PRT

<213> Homo sapiens

<400> 317 Phe Arg Ala Trp Arg Asn His Gly His Ser Cys Phe Leu Cys Glu Ile 10 5

Val Ile Arg Ser Gln Phe His Thr Thr Tyr Glu Pro Glu Ala 20

<210> 318 <211> 102 <212> PRT <213> Homo sapiens

<400> 318 Ala Asp Asn Asn Phe Thr Gln Glu Thr Ala Met Thr Met Ile Thr Pro

Ser Ser Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr 20

Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn

Ser Ala Arg Ala Val Leu Leu Ile Trp Gly His Gly Ser Ser Gly Lys 55

```
Met Ala Leu Cys Gly Val Glu Val Ser Pro Arg Val Gly Gly Ser Val
                    70
Pro Val His Arg Tyr Leu Leu Ala Ala His Ile His Ser Glu Ala Leu
                                     90
Leu Ser Gln Leu Arg Met
            100
<210> 319
<211> 24
<212> PRT
<213> Homo sapiens
<400> 319
Thr Ala Met Thr Met Ile Thr Pro Ser Ser Lys Leu Thr Leu Thr Lys
                                    10
Gly Asn Lys Ser Trp Ser Ser Thr
             20
<210> 320
<211> 26
<212> PRT
<213> Homo sapiens
<400> 320
Ser Ser Gly Lys Met Ala Leu Cys Gly Val Glu Val Ser Pro Arg Val
Gly Gly Ser Val Pro Val His Arg Tyr Leu
             20
<210> 321
<211> 7
<212> PRT
<213> Homo sapiens
<400> 321
Val Asp Pro Val Lys Gly Gly
1
<210> 322
<211> 16
<212> PRT
<213> Homo sapiens
<400> 322
Ile Arg His Glu Arg His Glu Leu Val Pro Asn Ser Ala Arg Asp Phe
```

10

5

<210> 327 <211> 40

```
<210> 323
<211> 6
<212> PRT
<213> Homo sapiens
<400> 323
Ala Thr Ser His Cys Gly
<210> 324
<211> 48
<212> PRT
<213> Homo sapiens
<400> 324
Ala His Gly Gln Ile Glu Gly Lys Ala Leu Thr His Asp His Thr Ala
                                   10
Glu Lys Trp Gln Arg Gln Asp Leu Asn Leu Glu Pro Leu Ala Pro His
                                25
Thr Ser Asn Leu Asn His Ser Pro Tyr Asn Thr Thr Tyr Val Val Lys
                            40
        35
<210> 325
<211> 9
<212> PRT
<213> Homo sapiens
<400> 325
Leu Asn Ser Ser Asp Cys Gln Leu Ala
  1 5
<210> 326
<211> 33
<212> PRT
<213> Homo sapiens
<400> 326
Thr Pro His Asn Leu Ser Ala Arg Arg Leu Ser Gly Thr Met Tyr Gly
Phe Phe Ala Leu Gln Leu Thr Val Leu Leu Val His Tyr Phe Phe Leu
                               25 -
Ile
```

```
<212> PRT
<213> Homo sapiens
<400> 327
Asn Ser Ala Arg Ala
```

Asn Ser Ala Arg Ala Lys Met Arg Leu Ser Thr Asn Leu Cys Ile Ile

1 5 10 15

Leu Ile Asn Ile Leu Ile Gln Asn Val Leu Asn Phe Asn Arg Lys Ile 20 25 30

Ile Phe Lys Phe Leu Pro Cys Ala 35 40

```
<210> 328
<211> 21
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
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<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 328
Asn Xaa Trp Ile Pro Arg Ala Ala Gly Ile Arg His Xaa Ala Ala Leu
1 5 10 15
Gly Gln Ala Gly Thr

<210> 329 <211> 85 <212> PRT <213> Homo sapiens

<400> 329 Leu Leu Phe His Met Lys Leu Arg Lys Glu Val Glu Arg Thr Gly Leu 1 5 10 15

Val Leu Trp Ala Leu Leu Ala Gly Ala Pro Pro Pro Thr Ala Gly Leu 20 25 30

Glu Gly Ser Arg Gly Gln Val Pro Gly Gln Leu Leu Gln Gln Ala Gln 50 55 60

Gln Ala Phe His Leu Cys Pro Gln Val Ile His Gly Leu Leu Tyr His 65 70 75 80

```
Leu Leu His Asp Ile
85
```

```
<210> 330
```

<211> 25

<212> PRT

<213> Homo sapiens

<400> 330

Arg Lys Glu Val Glu Arg Thr Gly Leu Val Leu Trp Ala Leu Leu Ala 1 5 10 15

Gly Ala Pro Pro Pro Thr Ala Gly Leu 20 25

<210> 331

<211> 23

<212> PRT

<213> Homo sapiens

<400> 331

Gly Ser Arg Gly Gln Val Pro Gly Gln Leu Leu Gln Gln Ala Gln Gln 1 5 10 15

Ala Phe His Leu Cys Pro Gln 20

<210> 332

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 332

Gly Ser Arg Arg His Val Val Gly Lys Pro Gly Thr Pro Cys Arg Tyr
1 5 10 15

Arg Ala Gly Ile Pro Xaa Val Asp Pro Arg Val Arg Ser Ile Thr Val 20 25 . 30

Ile Val Lys Met Trp Phe Leu Arg Val Val Ala Thr Tyr Gly Gly Val

Glu Arg 50

<210> 333

<211> 18

<212> PRT

<213> Homo sapiens

```
<400> 333
```

Ile Phe Ser Cys Asp Ser Ile Ala Ile Ile Gln Ile Lys His Leu Ala 10

Phe Pro

<210> 334

<211> 34

<212> PRT

<213> Homo sapiens

<400> 334

Gly Leu Trp Leu Ser Leu Gly Gly Phe His Glu Arg Gly Gln Asp Trp 10

Glu Gln Thr Gln Lys Ile Tyr Asn Cys His Val Leu Leu Asn Arg Lys 25

Gly Gln

<210> 335

<211> 68

<212> PRT

<213> Homo sapiens

<400> 335

Ala Trp Pro Arg Leu Gly Ala Asp Ser Glu Asn Leu Gln Leu Ser Arg 10

Ala Ala Glu Gln Lys Gly Ala Val Val Ala Thr Tyr Arg Lys Thr His 20 25 .

Leu Cys Asp Val Glu Ile Pro Gly Gln Gly Leu Cys Val Lys Ala Thr

Leu Pro Cys Leu Gly Pro Val Leu Ser His Leu Ser Ala His Gln Gln-55

Ala Arg Leu Val 65

<210> 336

<211> 27

<212> PRT

<213> Homo sapiens

<400> 336

Arg Ala Ala Glu Gln Lys Gly Ala Val Val Ala Thr Tyr Arg Lys Thr 1 5 10 15

His Leu Cys Asp Val Glu Ile Pro Gly Gln Gly 20

```
<210> 337
<211> 8
<212> PRT
<213> Homo sapiens
<400> 337
Arg Arg Asp Ser Arg Ala Gly Ala
                 5
<210> 338
<211> 8
<212> PRT
<213> Homo sapiens
<400> 338
Leu Ser Ala Gly Asn His Asp Thr
1 5
<210> 339
<211> 41
<212> PRT
<213> Homo sapiens
Lys Gln Val Lys Cys Ala Lys Val Ser Tyr Leu Leu Phe Leu Phe Gln
Tyr Cys Ala Ile Asp Ser Cys Ile Lys Phe Trp Asn Ala Gly Ser Ser
                               25
Trp Leu Ser Ser Val Thr Leu Trp Ser
                       40
        35
<210> 340
<211> 13
<212> PRT
<213> Homo sapiens
<400> 340
Ile Tyr Val Met Asp Thr Ser Arg Ser Thr Asn Pro Val
        5
<210> 341
<211> 14
<212> PRT
<213> Homo sapiens
<400> 341
Asn Met Leu Tyr Ala Cys Ser Ile Leu Tyr Lys Thr Lys Leu
                                   10
                5
```

```
<210> 342
<211> 19
<212> PRT
<213> Homo sapiens
<400> 342
Met Asn Lys Thr Asp Ile Ile Asp His Ser Phe Ala Val Glu Trp Met
                                  10
Gln Asp Phe
<210> 343
<211> 13
<212> PRT
<213> Homo sapiens
<400> 343
Ala Phe Gln Asp Ala Leu Asn Gln Glu Thr Thr Tyr Val
              5
<210> 344
<211> 41
<212> PRT
<213> Homo sapiens
<400> 344
Asn Leu Thr Arg Ser Met Ser Leu Val Leu Asp Glu Phe Tyr Ser Ser
1 5
Leu Arg Val Val Gly Val Ser Ala Val Leu Gly Thr Gly Leu Asp Glu
            20
Leu Phe Val Gln Val Thr Ser Ala Ala
<210> 345
<211> 10
<212> PRT
<213> Homo sapiens
<400> 345
Leu Lys Lys Ser Leu Ala Asn Ala Glu Ser
1
           5
<210> 346
<211> 29
<212> PRT
<213> Homo sapiens
<400> 346
Lys Asp Met Gly Ser Val Ala Leu Asp Ala Gly Thr Ala Lys Asp Ser
                5
                                  10
```

Leu Ser Pro Val Leu His Pro Ser Asp Leu Ile Leu Thr .
20 25

<210> 347 <211> 28 <212> PRT <213> Homo sapiens

<400> 347

Ala Gly Ser Gly Lys Thr Thr Phe Val Gln Arg Leu Thr Gly His Leu

1 5 10 15

His Ala Gln Gly Thr Pro Pro Tyr Val Ile Asn Leu 20 25

<210> 348 <211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 348

Ser Thr Trp Ile Gln Gln Tyr Met Lys Phe Pro Phe Leu Pro Ile Leu 1 5 10 15

Val Met Lys Phe Ile Glu Lys Ala Gln Asn Met Ser Lys Tyr Val Leu 20 25 30

Ile Asp Thr Pro Gly Gln Ile Glu Val Phe Thr Trp Ser Ala Ser Gly 35 40

Thr Ile Ile Thr Glu Ala Leu Ala Ser Ser Phe Pro Thr Val Xaa Ile 50 60

Tyr Val Met Asp Thr Ser Arg Ser Thr Asn Pro Val Thr Phe Met Cys
65 70 75 80

Asn Met Leu Tyr Ala Cys Ser Ile Leu Tyr Lys Thr Lys Leu Ala Phe 85 90 95

Ile Xaa Gly Met Asn Lys Thr Asp Ile Ile Asp His Ser Phe Ala Val 100 105 110

Glu Trp Met Gln Asp Phe Xaa Ala Phe Gln Asp Ala Leu Asn Gln Glu 115 120 125

Thr Thr Tyr Val Ile Thr 130

<210> 349

<211> 197

<212> PRT

<213> Homo sapiens

<400> 349

Gly Phe Pro Arg Cys Leu Glu Ser Arg Asp Tyr Ile Arg His Asn Leu 1 5 10 15

Thr Arg Ser Met Ser Leu Val Leu Asp Glu Phe Tyr Ser Ser Leu Arg 20 25 30

Val Val Gly Val Ser Ala Val Leu Gly Thr Gly Leu Asp Glu Leu Phe 35 40 45

Val Gln Val Thr Ser Ala Ala Glu Glu Tyr Glu Arg Glu Tyr Arg Pro
50 55 60

Glu Tyr Glu Arg Leu Lys Lys Ser Leu Ala Asn Ala Glu Ser Gln Gln 65 70 75 80

Gln Arg Glu Gln Leu Glu Arg Leu Arg Lys Asp Met Gly Ser Val Ala 85 90 95

Leu Asp Ala Gly Thr Ala Lys Asp Ser Leu Ser Pro Val Leu His Pro
100 105 110

Ser Asp Leu Ile Leu Thr Arg Gly Thr Leu Asp Glu Glu Asp Glu Glu 115 120 125

Ala Asp Ser Asp Thr Asp Asp Ile Asp His Arg Val Thr Glu Glu Ser 130 135 140

His Glu Glu Pro Ala Phe Gln Asn Phe Met Gln Glu Ser Met Ala Gln 145 150 155 160

Tyr Trp Lys Arg Asn Asn Lys His Arg Val Thr Glu Glu Ser His Glu

165 170 175

Glu Pro Ala Phe Gln Asn Phe Met Gln Glu Ser Met Ala Gln Tyr Trp 180 185 190

Lys Arg Asn Asn Lys 195

<210> 350

<211> 10

<212> PRT

<213> Homo sapiens

```
<400> 350
Leu Ala Pro Ser Ser Val Gly Ser Ala Ser
1 5 10
```

<210> 351

<211> 39

<212> PRT

<213> Homo sapiens

<400> 351

Arg Glu Ala Thr Lys Asn Pro Thr His His Arg Ser Thr Pro His Ala 1 5 10 15

Ala Gly Ser Gln Leu Asn Val Pro Pro Gln Pro Cys Phe Pro Leu His 20 25 30

His Gln Ile Lys Thr Ser Pro 35

<210> 352

<211> 38

<212> PRT

<213> Homo sapiens

<400> 352

Ser Gln Thr Ile Phe Lys Gln Ser Arg His Arg Cys Asp Ser Arg Gln 1 5 10 15

Glu Ser Thr Trp Leu Cys Ser His Glu Lys Asp Ala Thr Lys Met Met 20 25 30

His Leu Asn Asp Asn Ser 35

<210> 353

<211> 48

<212> PRT

<213> Homo sapiens

<400> 353

Val Thr Gly Ser Pro Ile Leu Gln Leu Ala Leu Leu Gln Leu Pro Ala 1 5 10 15

Trp Pro Leu Arg Gly Arg Leu Arg Gly Lys Arg His Cys Thr Gly Leu 20 25 30

Asn Leu Ala Ile Ser Gly Asn Gly Gly Glu Trp Gly Gly Arg Gly Glu 35 40 45

```
<211> 19
<212> PRT
<213> Homo sapiens
<400> 354
Glu Phe Gly Thr Arg Ser Leu Asp Pro Ser Gly Arg His Arg Val Gly
Ala Ala Gly
<210> 355
<211> 44
<212> PRT
<213> Homo sapiens
<400> 355
Ala Gln Gly Arg Cys Ser Arg Asp Gly Ala Ser Ala His Gly Gly Leu
Ser Val Pro Arg Trp Thr Cys Pro Ser Ser Gly Ser His Asn Pro Leu
             20
Pro Leu His Tyr Phe Thr Gln Val Gly Thr Phe Pro
                             40
<210> 356
<211> 44
<212> PRT
<213> Homo sapiens
Cys Arg Val Ser Ala Leu Arg Glu Leu Lys Asp Ser Gln Arg His Gln
Gly Ser Leu Ala Gln Arg Ser Asn Ser Gln Ala Pro Arg Arg Thr Ala
Met Glu Arg Thr Glu Thr His Leu Gln Trp Gly Leu
         35
<210> 357
<211> 45
<212> PRT
<213> Homo sapiens
<400> 357
Gly Thr Leu Pro Val Pro Gly Val Gln Ser Leu Pro Thr Pro Ser Leu
Cys Leu Pro Pro Ser Lys Gly Gly Val Thr Thr Ser Val Ala Lys His
             20
Leu Leu Pro Gly Ser Leu His Pro Gly His Leu Ser Leu
```

40

```
<210> 358
 <211> 51
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids
<400> 358
Trp Ser Val Cys Leu Ser Val Pro Pro Ser Leu Asn Leu Leu Pro Pro
                                      10
Cys Pro Leu Leu Ala Pro Gly Ser Pro Xaa Pro Leu Leu Ala Ala
                                  25
Pro Ser His Leu Thr Gln Gly Ser Leu Arg Thr Leu Lys Trp Trp Ile
                                                  45
His Pro Glu
     50
<210> 359
<211> 50
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 359
Ser Pro Gly Leu Xaa Gly Ile Arg His Glu Gln Pro Ser Lys Leu Met
                                      10
Arg Leu Leu Ser Ser Asn Glu Asp Asp Ala Asn Ile Leu Ser Ser Pro
             20
Thr Asp Arg Ser Met Ser Ser Ser Leu Ser Ala Ser Gln Leu His Thr
Val Asn
     50
<210> 360
<211> 25
<212> PRT
<213> Homo sapiens
<400> 360
Gln Pro Ser Lys Leu Met Arg Leu Leu Ser Ser Asn Glu Asp Asp Ala
                  5
                                     10
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Ser Gln Gly Gln Leu
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Thr Gly Phe Ser Leu Pro Phe
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Lys Arg
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Glu
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Lys Arg Thr Asp Ser Asn Gly Arg Val Tyr Phe Val Asn His Asn Thr

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25

20

325

Arg Ile Thr Gln Trp Glu Asp Pro Arg Ser Gln Gly Gln Leu Asn Glu Lys Pro Leu Pro Glu Gly Trp Glu Met Arg Phe Thr Val Asp Gly Ile Pro Tyr Phe Val Asp His Asn Arg Arg Thr Thr Tyr Ile Asp Pro 70 Arg Thr Gly Lys Ser Ala Leu Asp Asn Gly Pro Gln Ile Ala Tyr Val Arg Asp Phe Lys Ala Lys Val Gln Tyr Phe Arg Phe Trp Cys Gln Gln 105 Leu Ala Met Pro Gln His Ile Lys Ile Thr Val Thr Arg Lys Thr Leu 115 120 Phe Glu Xaa Ser Phe Gln Gln Xaa Xaa Ser Phe Ser Pro Gln Asp Leu 135 Arg Xaa Arg Leu Trp Val Ile Phe Pro Gly Glu Glu Gly Leu Asp Tyr 145 150 155 Gly Gly Val Ala Arg Glu Trp Phe Phe Leu Leu Ser His Glu Val Leu Asn Pro Met Tyr Cys Leu Phe Glu Tyr Ala Gly Lys Asp Asn Tyr Cys 185 Leu Gln Ile Asn Pro Xaa Ser Tyr Ile Asn Pro Asp His Leu Lys Tyr 195 200 Phe Arg Phe Ile Gly Arg Phe Ile Ala Met Ala Leu Phe His Gly Lys Phe Ile Asp Thr Gly Phe Ser Leu Pro Phe Xaa Lys Arg Ile Leu Asn 225 . 230 235 Lys Pro Val Gly Leu Lys Asp Leu Glu Ser Ile Asp Pro Glu Phe Tyr Asn Ser Leu Ile Trp Val Lys Glu Asn Asn Ile Glu Glu Cys Asp Leu 265 Glu Met Tyr Phe Ser Val Asp Lys Glu Ile Leu Gly Glu Ile Lys Ser 275 His Asp Leu Lys Pro Asn Gly Gly Asn Ile Leu Val Thr Glu Glu Asn Lys Glu Glu Tyr Ile Arg Met Val Ala Glu Trp Arg Leu Ser Arg Gly 305 310 315 Val Glu Glu Gln Thr Gln Ala Phe Phe Glu Gly Phe Asn Glu Ile Leu

330



Pro Gln Gln Tyr Leu Gln Tyr Phe Asp Ala Lys Glu Leu Glu Val Leu 340 345 350

Leu Cys Gly Met Gln Glu Ile Asp Leu Asn Asp Trp Gln Arg His Ala 355 360 365

Ile Tyr Arg His Tyr Ala Arg Thr Ser Lys Gln Ile Met Trp Phe Trp 370 375 380

Gln Phe Val Lys Glu Ile Asp Asn Glu Lys Arg Met Arg Leu Leu Gln 385 390 395 400

Phe Val Thr Gly Thr Cys Arg Leu Pro Val Gly Gly Phe Ala Asp Leu 405 410 415

Met Gly Ser Asn Gly Pro Gln Lys Phe Cys Ile Xaa Lys Val Gly Lys 420 425 430

Glu Asn Trp Leu Pro Arg Ser His Thr Cys Phe Asn Arg Leu Asp Leu 435 440 445

Pro Pro Tyr Lys Ser Tyr Glu Gln Leu Lys Glu Lys Leu Leu Phe Ala 450 455 460

Ile Glu Glu Thr Glu Gly Phe Gly Gln Glu 465 470